The National
Future Farmer
June-July, 1981
Owned and Published by the Future Farmers of America

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The National
Future Farmer
Owned and Published by the Future Farmers of America

June-July, 1981
Volume 29 Number 5
ISSN 0027-9315

A Word With The Editor

Summer may be dullsville for many high school programs but that is not true for vocational agriculture students/FFA members in most school systems. The vo-ag/FFA program was established on a 12-month basis and remains active throughout the summer months at most schools. The reason is quite simple. While the classroom studies are important, the supervised occupational experience program (SOEP)—whether on a farm or ranch, or job placement in agribusiness—is a year-round program and needs the attention of the local vocational agriculture teacher and FFA advisor.

Summer is also a busy time for FFA activities in the nation's capital and at the National FFA Center. Here are a few of the activities scheduled for this summer.

The Washington Conference Program—15 week-long conferences in all scheduled from June 8-August 8. The conferences are designed to serve chapter officers and advisors and will involve approximately 1,500 individuals from throughout the nation by summer's end.

The annual State President's Conference for state presidents and one other state officer will be held July 27-August 1.

The National FFA Update Conference for state FFA advisors, executive secretaries, members of the board of directors and consultants (teachers and teacher educators) is scheduled for July 26-30.

The summer meeting of the FFA Board of Directors will be held July 19-23.

The National FFA Foundation Board of Trustees will meet on July 24.

Work Experience Abroad (WEA) has a full lineup of summer activities. Outgoing FFA members will leave for their host countries on June 10. On June 30, an inbound group from other countries will arrive in the United States to begin their experience program. Six FFA members will leave for Puerto Rico on June 16 enroute to Panama where they will arrive on June 22 and remain until December. Accompanying them will be the six Panamanians who have been studying in this country since last October.

While not in Washington, D.C., there will be nine national leadership conferences held for state officers hosted by several states.

On July 22-25, the National FFA Alumni Council will meet at the National FFA Center.

In the meantime, it is business as usual for the magazine, supply service and many of the ongoing programs. Summer is the time, too, when serious work begins in preparation for the National FFA Convention.

Should be a good year with so many activities going on. What does your chapter have planned?

Wilson Carnes

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Our Cover

FFA Advisor Dave Perey admires the high quality of a plump tomato grown by chapter members in the Baboquivari High School greenhouse. Nicholas Juan, holding the box, and Charlie Vicenti are two of several Future Farmers who produce and market tons of tomatoes each year in Sells, Arizona, markets.

Cover photo by Gary Bye

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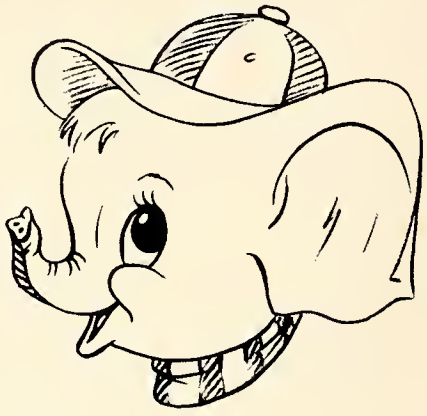
Over $7,000 in prizes

Awarded Monthly



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The FFA NEWS IN BRIEF

SIX YOUNG FARMERS from Panama, all members of Futuros Agricultores de Panama (FADEP), are beginning studies of American agriculture in Kentucky and Louisiana high schools as part of an eight-month program coordinated by FFA. Six FFA members depart June 15 for Panama as part of the exchange program. The Americans will live, work and study in the Latin American country for six months.

SUPPLY SERVICE sales of official FFA items have been "exceptional" since February, says Manager Harry Andrews. Supply service personnel recently slacked off from working an extra 24 hours a week to keep up with order demand. Supervisor Paul Kidd says the large numbers of orders reflect good financial standing of chapters nationwide, many of which build their treasuries with proceeds from projects such as rodeos, fruit sales, custom farm work and marketing of chapter-grown food products.

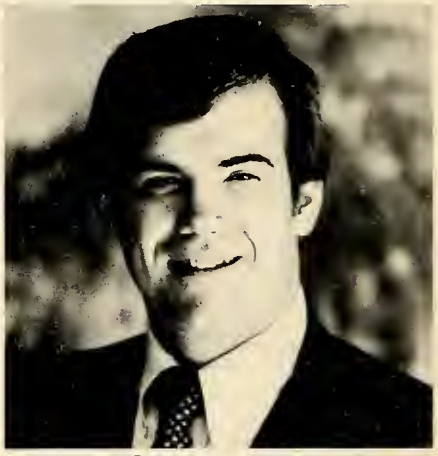
EFFORTS ARE UNDERWAY at the National FFA Center to finalize plans for the third World Conference on Agriculture and Agricultural Olympics. Cristel Caycedo of FFA's International Department says the government of Columbia is considering hosting the international assembly, hosted first in 1976 by FFA in Kansas City. FFA participated in the first two meetings, and will be invited to the third.

THIRTEEN COUNTRIES will be destinations for 40 FFA members leaving Washington, D.C., early this month as part of the Work Experience Abroad program. In the group is a Future Farmer headed for Poland—the first time a placement has been arranged in that country. Upon arrival overseas, most of the outbound WEA students will undergo the Introduction to European Agriculture Tour, a comprehensive look at farming and agribusiness in France, Germany and Belgium.

FOR THE FIRST TIME in its long history, the national FFA prepared public speaking contest has a corporate sponsor. The contest, until this year operated with monies from the National FFA Foundation general fund, will be sponsored by the FMC Foundation of Chicago.

LOOK FOR THE "BOAC EXTRA," a semi-annual publication to be produced and distributed to all chapters by R.J. Reynolds Industries, Inc., BOAC sponsors. The *Extra,* developed in cooperation with FFA, will profile BOAC programs of chapters across the nation. Stories are written from chapter reports found on returned BOAC media kit reply cards.

CAMERON DUBES, a former FFA chapter president and district officer from Aurelia, Iowa, has assumed duties as FFA's Director of Information. Cameron, who once served a national staff internship in the FFA information department, graduated from Iowa State University in 1980 with studies in agribusiness and agricultural journalism. As Director of Information, Cameron will plan and implement national communications efforts. He is a life member of the FFA Alumni Association, and holds membership in several honorary and service organizations.



Cameron Dubes

KIKA DE LA GARZA, chairman of the House Committee on Agriculture, shown below before a breakfast meeting of nearly 100 top farm editors and writers: "Sorry to be late. I had five breakfast invitations this morning, and you were the second priority. The first was 22 Future Farmers of America who just returned from a tour of European agricultural operations." Rep. de la Garza, from Texas, reminded FFA's national proficiency award winners of awesome challenges, such as food production, facing future farmers.

IS THIS ANY PLACE TO LEARN ABOUT LASERS?

Being a soldier in today's modern Army means being someone who can handle sophisticated technology. In fact, the Army trains more people in more types of skills requiring advanced technology than anyone in America.

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Agriculture

LOOKING AHEAD

THE DEPARTMENT OF ENERGY has launched a multi-year research program aimed at making U.S. farms almost totally energy self-sufficient. Tests in Texas, Virginia, Georgia, Nebraska, North Dakota, New York and Puerto Rico will combine conservation with renewable energy sources, including animal and agricultural wastes that can be converted to fuel. Results will be studied for important, useful applications on farms here and abroad.

FARMERS constitute only 7.8 percent of all landowners in the United States, but they own 46 percent of the nation's land. Those figures, taken from a USDA report and the *Farm Paper Letter,* compare with white- and blue-collar workers owning only about one-fourth of America's privately held land. The federal government owns 34 percent of the nation's 2.3 billion acres of land. Only one-tenth of 1 percent of America's land is owned by those residing outside the U.S.

THE AGRICULTURE COUNCIL of America (ACA) reports 2.3 percent of America's population is involved with agriculture, and Americans spend 14 percent of their disposable (after tax) income on food. ACA, heavily involved in promoting agricultural exports to foreign markets, also lists an 18 billion dollar positive U.S. food balance, meaning the value of U.S. food exports exceeded imports in 1981 by $18 billion.

COWS WITH A SWEET TOOTH? Sweetening the feed livestock consume can make otherwise unappealing feeds very palatable for animals. University of Wisconsin-Madison researchers say the prospect of food shortages in the coming years may point to an era when livestock must consume less-expensive, possibly foul-tasting, feedstuffs. Since research shows sweeteners can mask unpleasant tastes, livestock will consume bitter or sour, yet nutritious, feeds that normally would go uneaten.

FINDING A JOB with a computer is a service already being used by many agriculture students in American high schools. Woody Cox, executive director of the FFA Alumni Association, says half the states may be linked to the computer's information system by the end of this year. Simple to use, the computer analyzes a student's personality and matches appropriate jobs to the student's work-related strengths. Detailed data on agricultural jobs is then printed out for the student's review.

SENATOR JESSE HELMS of North Carolina, chairman of the Senate Committee on Agriculture, Nutrition and Forestry, told editors of *The National FUTURE FARMER,* "We're moving from an era of food surpluses to an era of food shortages. News about farming will soon, within this decade, be making the front page in the nation's newspapers." For Future Farmers, that's food for thought.

PRESIDENT REAGAN has designated the week of July 25-31 as National Farm Safety Week. "I urge all persons," he said, "engaged in farming and ranching and all persons and organizations allied with agriculture to redouble their personal and group efforts for farm, home, recreation and highway safety." President Reagan cited the deaths of nearly 400,000 farmers and ranchers in 1980 as warning enough for Americans to apply safety practices to their work.

A horn span up to 12 feet from tip to tip isn't the only unique trait of the African Watusi breed, shown below on Colorado's Dickinson Ranch. The cattle also exhibit disease resistance, longevity and calving ease, traits that boost the breed's popularity.

Ag Tips

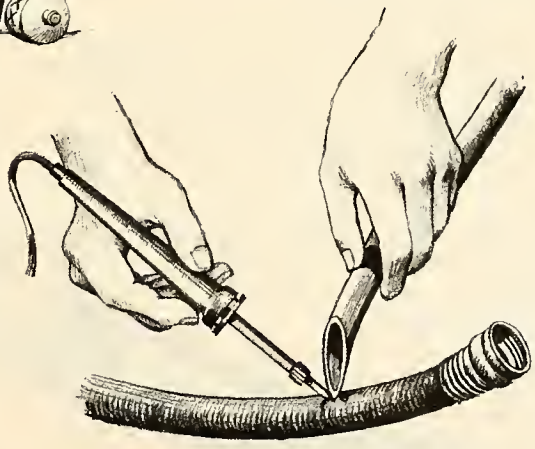
from your Exxon Farm Distributor

Why diesels shouldn't indulge in alcohol.

There are good reasons why your diesel engines should not be given a mixture of alcohol and diesel fuel. According to Exxon's technical people, blends of alcohol and diesel fuel are potentially unsafe mixtures. The mixtures have a much wider flammability range than straight diesel fuel. Also, the mixtures lower the cetane rating of the diesel fuel which may lead to operational problems and reduced engine efficiency.

Soldering iron can fix leaky hose.

If a plastic hose in your farmyard gets punctured, you may be able to save it with a small soldering iron. Use a piece of old plastic hose instead of solder to close the hole. And be careful not to overheat the punctured spot to avoid melting through it.



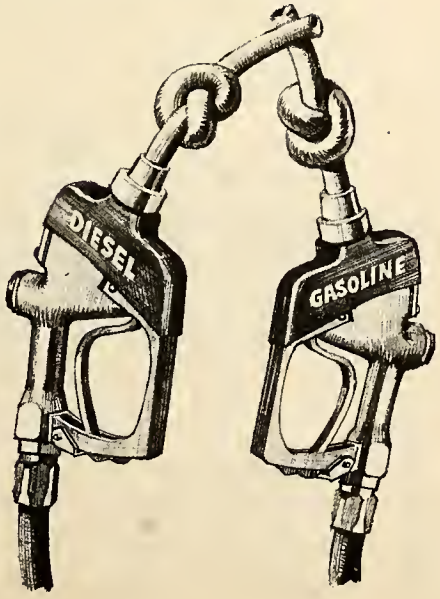


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Figure what 3% would save on your annual fuel bill. Then call your Exxon Distributor.

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Readers Report

MAILBAG

Grafton, West Virginia

I have recently read in the February-March issue of our magazine of Dwight Moyers ("The Modest Mountaineer"). I thought it was a very interesting article not only because Bruceton is fairly close to my home of Grafton, but because the article itself reminded me of my own advisor.

Mr. Harley Donham is not only an advisor, he is a person who is looked up to and respected by people of all ages. "Boss," as he is often called by many of his students, will do practically anything for his boys, from staying late so we can have FFA basketball practice to staying as late as 11:00 p.m. helping us pick out eggs for the district ham, bacon and egg show. (Incidently, our chapter took the first six placings in the brown egg division, something that no other chapter could boast of.) Yet he never complains of anything. Through over 20 years of teaching he has gained the experience to help Grafton be the powerhouse chapter that a lot of people talk about and respect throughout West Virginia.

I believe Harley Donham to be a superior individual plus many more things which are not mentioned above. If you are as impressed by this man as I am, why not interview him and see for yourself what a man he is, then maybe you will decide that he is worthy enough to have a story written about him.

Tom Hart

We were very pleased the story about Dwight Moyers would cause other FFA members to think of their own advisor and felt that Mr. Moyers was a stand-in for all the good agriculture teachers across the country. Unfortunately, we do not have enough space to carry articles about all the good ag teachers, but we will keep your suggestion in mind should we need this type of article in a future issue.—Ed.

Mifflinburg, Pennsylvania

Just to make this short and sweet, I want to say thanks for the nice article ("A Place for Him in Farming") you wrote on me in this last issue. As I said before, I never dreamed this would ever happen to me and now that it has, it means a lot!

Daryl Beiler

Spokane, Washington

In April, 1981, on KREM-TV at 7:25 a.m., there was an interview with an FFA member who was promoting Future Farmers of America. I encourage that organization. Some of my relatives have participated in it, much to their advantage.

I was distressed to see on the screen a button which read "FFA *ain't* all cows and plows." I suppose this was intended to be a catchy phrase, but I encounter so much slang and misuse of the language, why encourage and accept it? Was the use of the word "ain't" intended to suggest that that is how non-farmers stereotype the language of farmers?

Wouldn't the organization have better promoted its acceptance in the world of business and commerce if it encouraged correct English, particularly in this day of deteriorating speech? There are many books and articles written about this regrettable trend which probably should be read by the person who framed the wording on the button.

Judge Willard J. Roe
State Court of Appeals

Vancouver, Washington

Maybe the enclosed "Scoop" item is too long, but I'd sure love to see Evergreen FFA get some notice of accomplishment.

I'm very proud of this Evergreen Chapter. My son is in it and has learned more from one week of agriculture and FFA than any class he's ever taken. I'm glad we have an FFA.

Mrs. Jane Daly

Moravia, New York

Thank you for allowing us to reprint the article "Farming for Christmas."

Mrs. Linda K. Carr
Chronicle Guidance Publications

Marshall, Michigan

I have been a long-time fan of *The National FUTURE FARMER* magazine. The articles "College and Your Career" in the February-March, 1981, issue and "Used Cars: How to Get The Most For Your Money" in the April-May, 1981, issue were excellent! These topics, I'm sure, were on the minds of many others of your readers. I anxiously await the arrival of each issue.

John Huepenbecker
Marshall President

Howard, Ohio

Have you ever been in a large room full of people when a speaker starts to talk about a person in the room and all at once you find out that it's you they have been talking about?

Well, this happened to me at the East Knox,

Uncle Henry's Newest Lockblade.

"It's a little Beast. Guaranteed."

Slip a Cat Paw™ into your vest pocket and you'll discover a dozen reasons a day to use this little beauty.

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UNCLE HENRY SCHRADE
Ellenville, N Y 12428

Ohio, annual banquet. After having finished a very nice ham supper the advisor and the president gave out several special awards to the different members for their outstanding work. I had been quite happy as my son had won several of these awards. Then the advisor started talking about a special award they were giving out this year.

I turned to my son who was sitting next to me and asked him who was going to get this award and he said he did not know. I even asked the advisor's wife if she knew who was going to receive it and she said she did not know either.

Then the advisor called my name. I was so stunned I couldn't get up and go forward at first. After I did make it up there, he said the chapter wanted to give me an Honorary Chapter Farmer and presented me with a very nice plaque.

The members had sold enough fruit at Christmastime that they could buy all the food for their banquet and no one had to bring anything like a covered dish, nor did any of the students have to pay extra for it.

I was so happy over this award I just had to write you and tell you what happened to me.

My two brothers were members back in 1940s in the Delaware Willis Chapter.

Wanda D. Christy

Wingo, Kentucky

As a member of the FFA for the past five years, I have always enjoyed reading our magazine so that I could keep up with FFA activities all across the country.

Renea Simmons

Fisher, Arkansas

I wanted to thank you for sending the magazines, pictures and slides to me. I cannot begin to express how surprised and honored I was to be in *The National FUTURE FARMER.*

I have been busy with school and science fairs. My project this year involved growing different species of nitrogen fixing bacteria in different concentrations of pesticides and discovering the effect that these pesticides had on the bacteria's growth. I was fortunate enough to win the overall sweepstakes at our regional fair and I will attend the International Science and Engineering Fair in Milwaukee.

This past weekend I attended the Arkansas Science and Humanities Symposium in Russellville. I presented a paper on the project you saw last summer (and reported in the February-March, 1981, issue of the magazine). I placed in the top five and will go to West Point. If you are ever down this way again, give me a call and come by to meet my parents and maybe we can do some fishing.

Whit Knapple

Morehead, Kentucky

As a former 1951 American Farmer from Kentucky, I would like to express some of my feelings on the future of FFA.

I feel that the potential for a great organization is still present. Many of America's farmers today have been exposed to the FFA in high school.

With population increasing and shortages in many things on the horizon I feel the Future Farmer program is the best place to begin an intensive farm training program.

America's Future Farmers will have to feed this nation and possibly many countries of the world with less land and resources.

Money and time spent today on the Future Farmer program will pay off for America in the Future.

Lloyd Dean
Counselor
Rowan County High School

Win $500

Write a television message about agriculture!

Harlan Hentges, 1980 Salute to Agriculture contest winner, read his first place entry at the National FFA Convention. His Salute was aired during the Hesston-sponsored telecast of the National Finals Rodeo.

Enter Hesston's 1981 Salute to Agriculture Contest Exclusively for FFA Members!

In 100 words or less, write about the role farmers and/or ranchers play in improving the economy and standard of living in North America (including Canada). The message should emphasize the good job the farmer is doing. Explain how farmers help control inflation by increasing farm productivity by growing more food for more people and keep food prices down (at the production level) in comparison to other goods and services.

The winning entry will be developed into a public service television message and shown during the telecast of the final performance of the National Finals Rodeo. This program is seen by an estimated 25 million viewers and is sponsored by Hesston Corporation and participating dealers.

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First Prize:
One Winner - $500 Cash

Second Prizes:
Two Winners - $250 Cash

Third Prizes:
Five Winners - $100 Cash

Winners will be announced at the National FFA Convention in Kansas City in November.

100 finalists receive a FREE Commemorative Belt Buckle of the 1981 National Finals Rodeo!

NATIONAL FINALS RODEO NFR 19 81 HESSTON

PROFESSIONAL RODEO COWBOYS ASSOCIATION INC.

NEW RULES

Complete rules are available from State and National FFA offices or by writing Hesston Corporation. A formal entry form is not required.

1. Entrants must be bonafide members of the FFA.
2. Message must be submitted in approximately 100 words or less stating how farmers and/or ranchers are improving the standard of living and the economy in North America.
3. Entries must conform to the rules of the contest, with the date submitted, name, age, address and phone number of the entrant, and the FFA Chapter legibly written.
4. Entries will be judged entirely upon their content, which should be original in nature.
5. In case of similar or duplicate messages, the one with the earlier postmark will be declared the winner. All entries become the property of Hesston Corporation.
6. Entries will be judged by a panel of agri-industry executives selected by Hesston Corporation. Judges' decisions are final and not subject to appeal.

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HESSTON The PRIME LINE

Winning the President's Challenge . . .

. . . how we did it, and some ideas to help your chapter do the same.

By Kirk Goble, Advisor

Alamosa FFA being honored by the President last July in the Rose Garden as the top chapter in facing up to the energy challenge.

How did we win the first President's Energy Challenge? We worked hard!

Chapter officers, members and committees established goals, set up workshops, distributed flyers, spoke at dozens of meetings and generally labored for a full school year to get the energy conservation message out in our community. And it paid off.

On July 30, 1980, President Jimmy Carter announced that our chapter was the first national winner of the President's Energy Challenge. What an honor and a thrill! We thought our hard work was over but we discovered that it had just begun.

Letters and phone calls from FFA chapters all across the country started pouring in. "What did you do? How did you do it? Are plans for solar projects available?" So many of you have asked us for help that we'd like to share with you some of the things that helped take our chapter from the schoolhouse to the White House.

We based our energy effort on conservation and renewable sources of energy. Conservation came first because it's something everybody can do and in terms of money, it shows the fastest and greatest savings or return for dollars invested. The use of renewable resources was a natural. Farmers and agribusiness persons work with renewables daily; the sun, the wind, falling water, the soil, animal wastes and so on. With these two ideas as a basis, we began.

Here are some suggestions:

- Set a goal. To reach a goal you must first set a goal that is realistic and attainable. Our ultimate goal was to reduce energy consumption in our community.
- Establish a plan. How will you reach your energy goal? We established a broad plan that included public awareness activities, projects and workshops, and a public relations program with the local media to reach our goal of reduced energy consumption.
- Be realistic. Set your goals high, but base your plan on things that you know you can do. For example, we found that conservation efforts and construction of solar devices were things that we could accomplish while construction of an alcohol fuels still was much more difficult than we had anticipated. Quality must be a prime consideration. A poorly constructed solar collector that doesn't work properly will do more harm than good in trying to convince your community to use solar devices. Which brings us to the next item.
- Seek qualified help. There are plenty of qualified people in the energy field who are willing to help an FFA chapter in their conservation effort. Much conservation information is available through government agencies and many communities even have a local "Energy Center" or similar information office. Local solar contractors and energy companies and utilities are often willing to help too.
- Organize your efforts. It may help to establish a chapter network of work groups or committees to pursue the various parts of your energy plan. Use your human energy wisely and efficiently and you're bound to enjoy success in your efforts.

One of our best projects—a thermosiphon solar water heater.

Alamosa members constructing a solar food dryer.

The experience of the Alamosa Chapter has proven the desireability and practicality of solar energy use in agriculture. Many, many requests for solar information have come our way. A good place to start is with *The Solar Energy Information Locator,* a booklet available from the Solar Energy Research Institute, 1617 Cole Boulevard, Golden, Colorado 80401. This reference lists federal and state solar offices and groups as well as a number of good publications.

In response to requests for solar project plans, the Alamosa Chapter will make available a 22-page set of detailed plans for a solar air collector that can easily be built in your ag shop from readily available materials. The plans cost $4.00 and can be obtained from The Alamosa FFA Chapter, 401 Victoria, Alamosa, Colorado 81101.

We hope that this outline and the listed resources can help your FFA chapter to start a conservation and solar movement in your community and put you on the road to meeting and winning "The President's Challenge."

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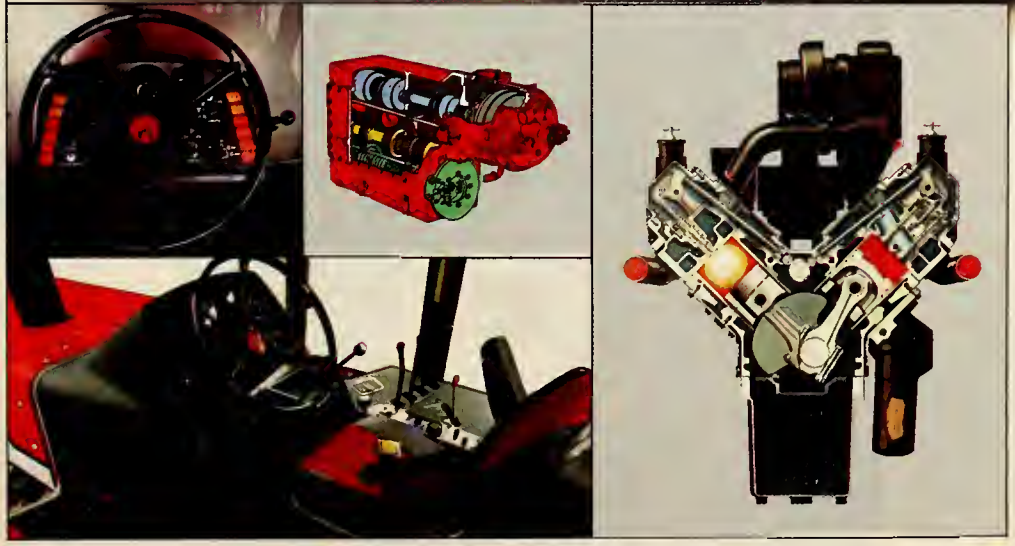

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Joey Fights the Dirt Burglar

Joey's soil and water conservation efforts paid off with results such as higher yielding soybean crops.

Photos by Author

By Jeffrey Tennant

Farmers in west Tennessee face a serious problem. Their land, with all its natural beauty and rich soil, is being stolen away. Not by a sneaky prankster with a quiet dump-truck, not by shopping center owners who want to pave farmland for parking, and not by governments who wish to build super-highways.

A dirt burglar is on the loose—one that's invisible, makes no noise and has years of experience. Thousands of concerned people, who know the burglar's threat to global agriculture, are out to put a stop to this thief.

Joey Caldwell is one of those people. Joey excells as a member of the Westview FFA Chapter in Martin, Tennessee. He graduated fifth in a 1980 graduating class of 159, served as chapter secretary and attained distinction as both chapter Star Greenhand and Star Chapter Farmer. Last month, Tennessee FFA members elected Joey to serve as their 1981-82 state president.

But Joey's war against soil loss is summarized in the detailed application forms

Gerald Caldwell's soil conservation practices on the home farm inspired Joey to follow his father's lead in study and use of resource conservation methods.

that earned him top honors in FFA's soil and water management proficiency award competition. Page after page tell of his battles against the bandit that steals countless tons of prime farm soil each year.

The culprit? Soil erosion—nature's wily robber that menaces the future of America's ability to produce ever-increasing harvests of food and fiber demanded by a growing world.

"The average annual topsoil loss in our county is between 22 and 23 tons per acre," says Joey, "and it's over 100 tons in some places. If farmers don't use soil conservation measures, their land is just going to wash away."

Erosion of topsoil in America's agricultural regions is 25 percent worse today than in the Dust Bowl years of the 1930s. Research done in 1979 by the U.S. Soil Conservation Service (SCS) shows average soil loss on cropland from surface erosion by water alone is 4.8 tons per acre per year. According to the 49-state SCS study, losses range from 10.6 tons in the Appalachian states to a low of 1.3 tons in the Pacific Coast states. The Corn Belt, where much of America's row crops are grown, averages a loss of 8.1 tons per acre per year, about twice the "permissible" rate. The permissible rate, set at four tons per acre per year by soil scientists, is the rate new soil can be created as fast as it is lost.

Even the alarming SCS estimates have been criticized as too conservative, placing too many farms in the permissible loss category. The Natural Resources Defense Council, a non-government concern, tells of a General Accounting Office study that reveals results of random visits to 283 farms in eight states. Of these farms, the study found 84 percent suffering unacceptably high rates of soil loss. Government officials have repeatedly warned of impending doom for America's cropland. Former Secretary of Agriculture Bob Bergland warned that American agriculture is "on a collision course with disaster" because overly intensive production is eroding land and drying up vital water supplies.

"The hard fact is," says Congressman Ed Jones, chairman of the House Agriculture Subcommittee on Conservation, Credit and Rural Development, "unless we begin soon to reduce the rate at which our soil is eroding, we will not have the productive capacity needed to feed and clothe future generations of Americans, or the ability to furnish the food exports which will increasingly be vital to prevent hunger in other countries."

FFA members and their families who recognize the soil loss problem, such as the Caldwells, can do much to stop the dirt burglar. Joey says, "Since I was old enough to know much about the operation of the farm, I've seen the need for soil conservation." Joey's dad and mom, Gerald and Mary, were among the first in Wheatley County to use no-till planting and adapt soil conservation practices.

Through vocational agriculture courses at Westview High School, many Future Farmers are discovering the erosion problem and finding ways to combat losses on their home farms and ranches.

"You could say our soil melts when it rains," says Marvin Flatt, Westview FFA advisor. "Because we live in a highly erodable area, we're beginning to spend more and more school time on soil conservation. The subject is becoming very important to young people. They'll have to learn to conserve or we won't have any land left to grow food on."

A 20-acre plot on school property is farmed by Westview FFA members. Conservation practices are used to provide training and prove results. Vo-ag classes take field trips to observe effects of erosion and prevention measures. To provide more in-depth resource management training, students work closely with the district SCS conservationist in finding solutions to specific soil loss problems.

"Many of the students," says Advisor Flatt, "are applying what they learn to their own land. Most aren't doing as much as Joey but I'm seeing more and more retention dams, sediment basins, cover crops and winter wheat production."

Joey lists all these conservation measures and more on his award-winning proficiency application. Proper tree and shrub management, an important part of a conservation program, is reflected in Joey's work to establish a 35-acre wildlife refuge. He also maintained hedgerows for wind breakage, and planted hundreds of trees. Joey's water management efforts include building levees, digging a lagoon for a hog waste treatment system, installing drainage tiles to control rushing water and sowing grassed waterways in fields. These measures, coupled with soil conservation practices such as land leveling for proper slope and contour farming, have yielded convincing results on Caldwell cropland.

"The Soil Conservation Service figured our soil loss at 25 tons per acre per year before we began our conservation program," says Joey, recalling the days before

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Join Joey in the Fight

You can join Joey Caldwell in the fight against the "dirt burglar": wind and water erosion. Here are Joey's comments on major conservation practices he utilizes on his family's farm to halt alarming losses of topsoil:

1. **Fertilization and liming of soil.** Joey says, "One of the most important assets to good soil management is proper fulfillment of plant nutrient deficiencies. Apply fertilizer yearly and lime every three to four years according to soil tests."

2. **Rotate crops annually and systematically.** "Helps in developing a better understanding of crop capabilities but be sure to adjust system for least possible tillage."

3. **Utilize contour farming methods.** "Planting row crops against or around a field's slope slows down water run-off and conserves soil."

4. **Establish grass waterways.** "Slow down eroding water with grassed waterways (trace areas where water runs after a storm and seed it heavily with grass—vegetative cover cushions the impact of raindrops and slows water movement). Fill gullied, eroded ditches with straw or sod bags. Sow winter cover crops, like winter wheat, and plant trees and shrubs." Soil scientists say rain falling upon sloping land without vegetative cover is the principal cause of erosion.

5. **Dig farm drainage systems.** "Arrange drainage ditches with the flow of water to larger ditches. Consult specialists from your local U.S. Soil Conservation Service (SCS) if you have questions on drainage, land leveling or other common water run-off controls."

6. **Take soil samples.** "Soil samples reveal your soil's structure and nutrient value. You can learn much about the soil in FFA soil judging including how to take a sample and test it." (Note: If you don't make the soil judging team, local conservation districts, extension services and university experiment stations can test your soil for you.)

7. **Build sediment basin drainage systems.** "These are retention dams in fields that are graded structures built up by piling and shaping soil. Even though they're like ridges in the field, you can still farm crops on them. Since tile drainage is placed underneath each ridge to carry off water you eliminate open ditches."

You can find other ways to fight soil erosion. An excellent source for assistance on conservation programs is your local soil conservation district. Through an agreement with the SCS, each district staffs at least one SCS technician to help carry out local conservation programs.

According to the USDA *Yearbook of Agriculture,* a request to your district is often all it takes to get technical assistance in designing and implementing conservation methods. You must make your own arrangements to have such measures as drainage and windbreaks built but you may be eligible for cost-share assistance on certain improvements through programs administered by the U.S. Agricultural Stabilization and Conservation Service. In some western states, similar assistance is available under the Great Plains Conservation Program administered by SCS.

Whatever your plan, remember that studies show the accelerating loss of agricultural land will have a serious impact on U.S. agriculture within a generation. You are a part of that generation. Joey Caldwell cut his farm's annual topsoil loss from 25 to 2 tons per acre. You can, too.

Alex with his rented spray plane—a Piper Pawnee, 1967 vintage.

Anyone Can!

Alex Blaine's qualities of determination and the will to work yielded a dream come true.

By Gary Bye

ALEX Blaine has a message to tell. In his own quiet, articulate way, Alex promotes setting goals and working toward them. Through his slow, steady climb to success he is showing others how a dream can come true with enough hard work and determination.

Alex is an aerial applicator. A spray pilot. At age 29, he owns and manages his own business at Casa Grande, Arizona, and employs up to eight people to assist him. He is the only Indian spray pilot in Arizona and one of the few in the country.

"Any young person in this country can succeed if he digs hard enough," says Alex. "It doesn't matter if you want to be an ag pilot or a successful businessman. And it doesn't matter if you are red, black or white. Just decide what you want to do and go after it. But don't expect success to come overnight."

Alex knows of what he speaks. It took him nearly eight years just to get to the point where he is today. Even as a high school vo-ag student he knew he wanted to fly, but for a young Indian boy without much money the idea seemed beyond reason. He still knew he was going to be involved in agriculture so he took every ag class offered at Casa Grande High School. He was involved with the FFA and worked on farms as a laborer. And he kept dreaming.

After graduation, Alex decided to take his plan to the Pima Indian Tribal Education Committee. He made his appeal for funds to study for his private pilot license. They were reluctant but finally agreed to assist with the financing. However, the funding came slowly and Alex, now a husband and father of two children, had to cover much of the cost from other sources and his own labor. Finally, after four years of study, Alex received his private pilot license, a permit most well-funded students can acquire in less than one year.

Nonetheless, now Alex was a pilot, with a license to fly for personal business or pleasure only. But he wanted more than that. He wanted to fly for a living. That meant he needed to obtain a commercial pilot license. So again the chase was on for funds to finance the education.

Alex went to the Bureau of Indian Affairs (BIA) and made his proposal. Moved by his show of persistence while working toward his private license, BIA agreed to finance further training. It was during commercial training at Casa Grande airport that Alex was struck with an idea: Why not take the solid agricultural foundation he had developed in school and as a laborer in agriculture and mix it with his flying. He knew what he wanted to do.

His decision to become an aerial applicator meant another stretch of schooling. This time Alex received a tribal education grant from the Bureau of Indian Affairs and completed another 40 hours training to qualify as an agricultural spray pilot.

The training is essential. Spray pilots live hazardous lives. Hauling heavy loads of chemicals and pesticides, the pilot operates on the edge of disaster. Too tight a turn with a heavy load and the airplane spins itself right into the ground. It takes 200 to 300 feet to recover from a stall. Yet a spray pilot seldom flies over 100 feet above the fields. Students are trained to avoid power lines by hopping over them or even flying beneath the wires.

Alex was cleared to begin commercial

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In an outdoor, "hands-on" laboratory, FFA Advisor Dave Perey shares his knowledge of truck crops management with Gabe Lopez (in cap) and Nicholas Juan.

Frank Molina, teacher in Baboquivari's two-man vocational agriculture department, explains farming techniques that are applicable to local conditions.

Cover Story

Sold on Ag at Sells

Unemployment is a national problem. Among the areas hardest hit is the little town of Sells, Arizona, located on the Papago Indian Reservation. Over half of the work force is idled by unemployment. "The actual unemployment figure probably runs close to 75 or 80 percent," says Dave Perey, agriculture teacher at Sells Baboquivari High School.

One ray of hope for many of the 200 students coming through Baboquivari High is the vocational agriculture program offered by Perey and his fellow teacher Frank Molina. In contrast to the dismal employment figures compiled by the overall population, nearly 80 percent of the students who complete four years of vo-ag training find and retain the same jobs.

"We try to get the students to realize they can function as a useful citizen when they get out of school, rather than standing in line waiting for a government check every month," says Molina. "We are really proud of the fact that many of our former students are now employed because of the skills they learned right here in the ag classroom."

Over 90 percent of the students at Sells are from the Papago Indian tribe. Because of their close communal and family ties, only a limited number venture beyond their home town or reservation boundaries. So the high school graduate must be ready to assume an active working role in the community or join the swollen ranks of the unemployed.

The vo-ag program at Baboquivari High School is tailored to give the students those skills which will make him or her employable. The program uses an extensive land laboratory. "It's like a microcosm of the whole community," says Dave Perey. "The Papago Indian reservation is the second largest in Arizona where most students come from an agricultural background. Ninety-five percent of our students are from rural areas."

The land laboratory consists of a large greenhouse for tomato production, a one-half acre plot of vegtables, cantaloupe and chile and seven acres of hay. There's also a one-acre livestock facility for hogs and cattle. The FFA chapter owns three cows which are pastured on ten acres of natural range owned by the FFA chapter.

The students manage each of the enterprises and are expected to perform the necessary steps to make each segment of the farm successful, just as if it were a personal undertaking away from the school.

For example, the tomato project is run by a handful of interested students. The 32-foot by 100-foot greenhouse offers just the right environs for the production of beautiful tomatoes. Up to 200 pounds are grown each week and marketed through local stores. Some of the produce is even shipped as far as 90 miles away. The students share in the profits after production costs are returned to the vocational agriculture program.

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At right, Dave Perey sets a sprinkler on chapter-owned land as Gabe Lopez (in cap) and Loren Patricio look on.

Ag School

To local "farm people," ELCO public schools are valuable sources of knowledge and leadership development.

By Jeffrey Tennant

FFA member Wanda Steffy reviews her award-winning fish and wildlife management project with Dr. Herr (in tie) and Instructor Lauffern.

You know you're in farm country as you approach Garden Spot High School in New Holland, Pennsylvania. Dairy barns and crop fields separate machinery dealerships and farm supply stores along the main route. In this, the state's center of agriculture, Garden Spot and its Grassland FFA Chapter are expected to stand out in agriculture education and Future Farmer activities—and they do just that.

"We're a part of the number one non-irrigated county in the nation," vouches Dr. Robert Herr, energetic chairman of the Eastern Lancaster County Schools (ELCO) agriculture department. On a state level, Lancaster County is tops in poultry, swine, beef and corn production. With such diversity and productive farming calling for well-rounded education, eight full-time teachers are kept busy instructing hundreds of eager students.

"We now have close to 250 FFA members in our Grassland Chapter," shares Dr. Herr, "and we've reached 100 percent of vo-ag enrollment. But we have many students studying agriculture who aren't eligible for FFA yet." Fact is, some students can't join for another ten years.

"We teach a voluntary agriculture program to students in kindergarten through fifth grade," explains Abbe Barbato, ELCO's elementary agriculture teacher who does her job in five area schools.

In the sixth grade, all students are enrolled in one hour a week of what we call 'vo-ag.' (Note: "Vo-ag" in ELCO elementary schools is a reference word for a pre-vocational orientation program.)

"Before the year is over, we will have studied topics such as hunter safety, electric power, dairy production and wildlife conservation. These studies provide a strong foundation for later studies in high school vocational agriculture."

The Hinkletown Alternative School, sixth through ninth grades, is yet another unique and viable educational service to the farm people of Lancaster County. At Hinkletown, young men and women from Mennonite and Old Order Amish families are taught agricultural methods befitting their farming philosophies. These families, many of whom are brilliant producers, do not use so-called modern technology on their farms. However, these people who prefer horse-drawn implements to powerful tractors are masters of conservation. Since they are committed to farming as an intended way of life, most Amish and Mennonite children cease formal education after eighth grade to return to the family farm.

The agriculture curriculum at Garden Spot doesn't reach only the young. Because farmers are anxious to learn, an adult program continues for both progressive-minded and conservative farmers.

"Many of the FFA grads here are going back to the farm or agribusinesses," says Don Robinson who, along with Bob Anderson, heads up the ELCO adult program. "We know these graduates may eventually participate in our classes. Soon after school they realize the complexities of farming. We build upon the foundation laid by vo-ag with advanced studies and current issue seminars, so we see our work as an extension of the vo-ag program."

Bob and Don conduct many meetings, guiding farmers through programs such as management seminars and training sessions in machinery at the nearby Sperry New Holland manufacturing plant. The adult instructors also coordinate activities of area Young Farmers, an organization for "any farmer willing to learn, 17 to 80 years old."

Elementary instructor Abbe Barbato, left, teaches introductory principles of agriculture to fascinated sixth grade students (at right, top and bottom).

for All Ages

Between the elementary and adult programs lies the strength of the Grassland FFA Chapter—the ninth through twelfth grades. A visit to any class reveals a sincere desire to learn about agriculture. FFA members take great pride in their chapter, an attitude that has helped maintain a strong relationship with the local community and school officials.

"For a town of 5,500," says Dr. Herr, "we're fortunate to have two prominent sponsors of FFA programs—Sperry New Holland and the Victor Weaver company. And our teachers—each is very devoted. But the strength of any vo-ag program can be traced back to the support given by the administration. Here, Mr. Schaeffer, our principal, holds the FFA Distinguished Service award. And Mr. Simon, our chief school administrator, holds the Honorary American Farmer degree."

It appears that Garden Spot "has it made." But a strong FFA chapter also demands dedication and hard work from its members. One look at the chapter's program of work indicates the members' desire to maintain their chapter's tradition of award-winning and service. Members have set out to accomplish many challenging programs.

"I've already learned much about agriculture," says freshman Jeff Weber, "and I plan to learn more. Especially improved practices of growing things."

"FFA," offers Leroy Wanner, a freshman with a chapter office in mind, "helps make you a better person. If you take part, it's like a laboratory for vo-ag. Even if you live on a farm, you can learn things in vo-ag you won't learn on a farm."

Seniors Glenn Hartz and Lisa Russell have seen Grassland FFA bring home many honors to their school, including a silver emblem chapter award at last year's National FFA Convention. But now, facing the world of work, they look back on their vo-ag/FFA training as more than just contests and awards.

"The program has given me a solid background in agriculture," says Glenn, a college-bound senior who presently serves as chapter reporter. "Since starting in sixth grade's vo-ag classes, I have gained much from the program."

While Glenn plans college studies in agriculture, chapter sweetheart and FFA member Lisa Russell plans a shot at the business world right away.

"Gaining work experience," says Lisa, "has been very valuable to me. All seniors have a chance to work part-time in an agricultural job during the second semester. Some work in sales, some as mechanics, some in maintenance. The school coordinates the placements and the community has always been very cooperative."

Dr. Herr explains the school's philosophy behind the dedicated effort to supplement a student's academic learning with practical experience:

"Although more and more students are involved in agriculture as a career," he says, "we find fewer and fewer farms in our country. We also know that businesses related to agriculture are growing in number. We feel it takes the same amount of information to sell a baler as it does to run a baler."

"And that's why," adds Principal Donald Schaeffer, "an ag program can be viable for all students, whether they're in production or business.

"The challenge of vocational agriculture is to teach students how to grow more with less—more food is needed from a diminishing amount of farmland. Education is the moving factor behind that challenge. The abundance of food we enjoy today is due in large part to vocational agriculture programs, and it can happen again."

Schaeffer helped Herr organize the ELCO agriculture program in 1959 with 17 students. Since then, says the veteran principal, he has seen not only a tremendous growth in the program but a revolution in farming. As part of that progression, ELCO pioneered agribusiness programs for high school students. The school is now broadening another vital area of study—environmental agriculture.

Garden Spot vocational agriculture students receive instruction in areas ranging from farm shop (shown below) to environmental agriculture.

Bob Lauffern, one of two environmental agriculture teachers, says, "Many of the students I teach are more interested in a forestry or wildlife career than in production agriculture. But studies in natural resources and outdoor recreation can be applied to many agricultural situations."

Environmental ag students are exposed to topics such as forest resources, zoning ordinance and land use, stream improvement, outdoor survival and energy conservation. The students also have their own set of FFA officers, one of three teams in the Grassland Chapter in addition to production ag and ninth grade. This year's environmental chapter president, Wanda Steffy, attributes much of her accomplishment and aspiration to FFA.

"Mr. Lauffern and the environmental program sparked my interest in a resource conservation career," says the state proficiency award winner in fish and wildlife management. "Before I joined FFA, I was aware of outdoor careers but not the wide variety. The proficiency award gave me incentive to keep taking on more work as an interpretive naturalist."

Bob Anderson, left and Don Robinson bring a wealth of agricultural knowledge to farmers in the ELCO school district.

Much of Wanda's work involves counseling at youth conservation camps and schools in Pennsylvania. She plans now to study the environment in college while endeavoring to fulfill a personal goal—establishing a nature center in the ELCO school district.

Whether in-depth study of natural resources or raising cows best fits your interest, you could find a program to your liking in the ELCO school system. "We have one of the most comprehensive agriculture programs in the nation," assures Dr. Herr, full of enthusiasm for the school's contribution to area farming and agribusiness. "And we're blessed with many supporters and parents interested in their children's education. We simply try our best to adapt to the situation."

Perhaps that's why ELCO sixth graders can't wait until the vo-ag hour. That's why so many Garden Spot graduates go on to successful, challenging careers in agriculture. And that's why Garden Spot and the Grassland Chapter will remain outstanding in agricultural education and the FFA.

THE WILD ROUNDUPS

By Ferris Weddle

A tranquilizer has rendered these mountain goats unconscious for the long chopper ride to a new refuge.

Elk caught in the trap shown at the top of the page will be released and tracked in a study of elk herd migration.

WHEN you hear the word roundup, do you think of cattle, horses or sheep on wide-open western ranges? Such roundups are still a part of the western scene, often colorful and dramatic. But there are other roundups even more colorful with the added spice of potential danger for those involved.

The roundups are unique because they involve wild animals, usually the hoofed mammals we call big game: elk, deer, antelope, mountain goats, bighorn sheep and moose. They are rounded up for several reasons, but the primary one is the establishment of new populations in suitable habitat for a particular species.

Historically, a species may have ranged in an area but for various reasons may have disappeared. In the early years, overhunting was a factor with diseases and natural predation adding to the problem.

Habitat loss due to the spread of human activities has always been a major reason for declining big game populations. Animals may over-populate an area, especially winter ranges, with resulting malnutrition, low productivity and the spread of diseases and parasites. When such conditions exist, the population must be reduced either by extended or more liberal hunting seasons or by live-trapping the animals. Trapped animals are later transplanted to new habitats with an adequate food supply.

In many cases, especially with elk and deer, animals must be removed because of agricultural damages or too much competition with domestic livestock. If suitable habitat isn't available for transplanting, game departments authorize special hunting seasons in agricultural damage areas.

Several big game species are considered uncommon compared with elk and deer, among them bighorn sheep, mountain goats and moose. Whereas elk and deer are highly migratory, these rarer species are largely non-migratory although there is some movement of bighorns and moose from higher to lower elevations. Goats are likely to occupy the same area the year-round. The food supply, diseases, parasites and predation become significant in the survival of these isolated herds. To insure survival, new herds or bands must be established. That means live capturing and transplanting.

Over the past three decades hundreds of bighorns and mountain goats have been transplanted in the western states and in western Canadian provinces. Montana alone has transplanted at least 300 goats, establishing new, dispersed herds in the state as well as providing animals for other states. Idaho and Washington have also been active in both goat and bighorn programs. States which historically had no goats or where the animals had disappeared now have promising new herds. Among the states are Colorado, Nevada, Utah and South Dakota.

Before animals are moved to new homes, they first must be captured safely—and each species presents different challenges. The wild game wranglers don't necessarily wear broadbrimmed hats and ride horses at breakneck speeds in pursuit of the animals. Instead of horses, the game wranglers are likely to be in four-wheel drive vehicles or in planes or helicopters. In some cases they may carry a weapon—a rifle that shoots darts filled with tranquilizing or immobilizing drugs. In the final stages, however, the cowboy's lariat and tie ropes may be brought into use.

We can't say that horses were never used in wild animal roundups. In the 1940s and

(Continued on Page 22)

"WITH THESE STINGER .22'S, YOU NEVER SAW A JACK-RABBIT SO QUICK TO TURN AND RUN."

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"If you don't need all the speed the Stinger's got in store for you, CCI makes as many other kinds of .22 ammo as there are targets to shoot at, from Mini Caps to shotshells. Hollow points to solids. Shorts, Longs, LR's and Magnums. And CCI .22's have stronger case heads, 'cause they're reinforced with an inner belt you just won't find in other .22 rimfire ammo.

"Head on down to your sporting goods dealer today for a box of Stingers. Most likely, they'll be movin' faster than a rabbit runnin' from one."

Get the whole shootin' match from the Good Ol' Boys: CCI primers and ammo, Speer bullets and RCBS reloading equipment.

Roundups

(Continued from Page 20)

Biological aides, left, remove a bear from a net carrier, tag him and set him free. Above, a moose tranquilized by a dart fired from a helicopter is tagged and radio equipped for study.

early 1950s, horsemen helped corral pronghorn antelope in the southwestern states. It was difficult, sometimes dangerous work. Then it was discovered that small, low-flying planes were ideal for herding the fleet-footed antelope into traps. Just as good, or superior, were helicopters.

Depending on conditions, planes and 'copters have proved ideal for herding elk and deer into traps, especially in open farmlands. But the whirlybirds can also be used in rugged terrain. Bighorn sheep, for instance, have been herded into traps with 'copters although usually the animals are lured into traps with such baits as alfalfa hay, apples and salt. Salt is the usual bait for mountain goats—elk and deer are attracted to good hay.

Moose present special problems. They aren't herd animals like elk, deer and sheep, thus they don't concentrate on winter or summer ranges. They are powerful animals, often weighing from 800 to 1,000 pounds, sometimes more. Only an extremely strong corral or trap will hold them, and they might injure themselves or one another in a trap.

What's the safest way, then, to capture moose? The answer: Use helicopters to get close, then "shoot" the animals with immobilizing drugs. Unable to move for a short period of time, the captives can be taken by 'copter or other means to a holding pen or put into a heavy crate. In recent years, new moose herds have been established in Colorado and Utah through transplanting. Idaho has also been relocating moose.

After the animals are rounded up, they may be taken to their new homes in helicopters, planes, trucks, jeeps, boats or even on packhorses. It depends on the species and the terrain.

Both black and grizzly bears have been subjects of roundups, especially in national parks where they cause problems for human visitors. Many other animals have been captured for various reasons, among them jack-rabbits, wild turkeys, rattlesnakes, chukar partridges, buffalo, and in the Far North, musk oxen.

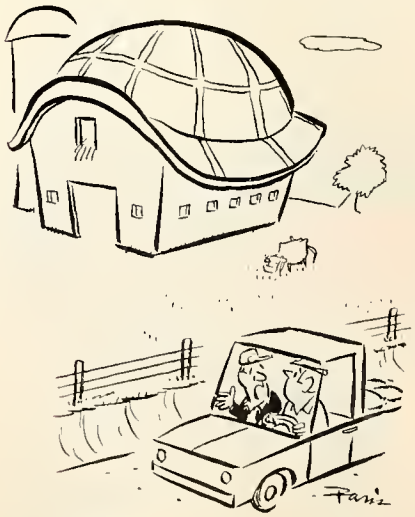
As a vital part of modern wildlife management, the wild roundups will continue to provide survival insurance for many species.

Ag at Sells

(Continued from Page 17)

"Once the students do something on the farm or in the ag shop, they begin to develop a real sense of self-worth. They feel good about themselves and don't want to lose that feeling," says Perey. "That's the big reason they want to find work when they get out of school."

The hands-on experience they receive in vocational agriculture is popular among the Baboquivari students to a point that neither teacher takes a lunch break since many students want to work in the shop during their noon hour. "The students enjoy the vo-ag program because they learn things they know they can use," says Molina. "The parents of one student came in and they were ectastic because their son had helped wire their home for electricity after he had learned wiring techniques in vo-ag class."



"I understand his new roof is guaranteed for life."

Not only do students learn from their classroom experience, but also from FFA activities. Amos Stevens, the FFA chapter president, is a good example. "Being an FFA officer gives you more confidence and makes it easier to talk to people," he says.

Buoyed by his FFA successes and using the background he received in an FFA soils class, Amos recently won a regional science fair with his display on soil testing. His exhibit was in competition with several hundred others from around the state.

Other students have received notoriety by building on their experiences with the Baboquivari vo-ag and FFA program. The current Miss Papago, Vivian Juan, credits much of her success and drive to the experiences she has in FFA. Now a senior at Arizona State University majoring in political science, Vivian competed in the state public speaking contest while in high school and built on that background for her current activities. Most recently she attended the inauguration ceremonies for President Ronald Reagan as an invited guest and is now considering the possibility of working as a legislative aide in Washington, D.C.

Robert Facio, Baboquivari High School principal, and Advisor Perey flank Amos Stevens, a junior and chapter president.

Still, for most agriculture students at Sells, the key to the future is the practical techniques they can learn in the ag shop or on the land laboratory. Those skills can make them productive and proud members of the community.

If enough students absorb the message that teachers Perey and Molina are spreading, it won't be long before Sells, Arizona, no longer has an employment problem.

You can't train somebody to be a hero. And the Army Guard people on this page would be the last to label themselves that.

But it was Army Guard people like these who helped put a town and its families back together after a tornado had slammed through the countryside. And it's Army Guard people like these, working in their own communities, who have helped neighbors and friends survive everything from floods to blizzards to tornadoes.

Put Army Guard people in situations like those and they perform at their flat-out best.

In the Army Guard, you're ready to meet any kind of challenge head-on. The training is geared to develop important human skills that work hand-in-glove with military readiness.

And you'll join your friends and neighbors who train at home.

But it won't just happen. You've got to do something first. Rip out the attached postcard, fill it out and mail it in. Better yet, call us right now. It's toll-free and won't cost you a penny. The number is 800-638-7600.* Or see your Army Guard recruiter. He has the whole story. Ask about the benefits that can last a lifetime and the money you'll earn.

Then get on the Guard team. And be your best.

*In Hawaii 737-5255; Puerto Rico: 723-4550; Virgin Islands (St. Croix) 773-6438; Maryland 728-3388, in Alaska: consult local phone directory.

ARMY NATIONAL GUARD
The Guard belongs.

Jina Is for Real

By Gary Bye

THE National FUTURE FARMER magazine seldom writes about beauty queens. Of course it isn't very often the FFA has a genuine, nationally recognized beauty queen counted among its ranks.

Jineane Ford is that person. Named Miss USA in July of 1980, the 21-year-old Miss Ford has just completed her reign, traveling throughout the world and making personal appearances.

Jina, as she is called by her friends, was an active FFA member of the Gilbert, Arizona, FFA chapter and served as a state FFA officer in the Arizona Association in 1978. Scott, her 19-year-old brother, was also active in FFA and younger brother Brent will be a Greenhand next year.

The stage for Jina's honor, the Miss USA Pageant, is the largest beauty pageant in the United States. The 1980 pageant, telecast from Biloxi, Mississippi, captured more than 60 million viewers. Along with the title, the honor offered $7,500 in prizes and commitments.

During her reign, Jina lived in a $1,800-a-month apartment provided for her overlooking New York City's Central Park. She and her roommate, Miss Universe, were supplied with a chauffeured limousine. And whenever she traveled a hired companion went along who could speak a number of languages and take care of any routine problems.

If you think that kind of success would make even the most solid FFA member forget her humble beginnings, don't be misled. Throughout her tenure, the final line in all her interviews was the importance of her agricultural background and the invaluable leadership training she received through the FFA.

"Most city reporters couldn't get over the fact that I had raised calves, artificially inseminated cows, cut up beef in our meat processing lab or doctored my own sick animals," says Jina. "Often that was the whole angle to their story."

For *The National FUTURE FARMER* magazine, that kind of experience offers little in terms of a unique experience for our members. Still, the success which Jina had throughout her vo-ag and FFA career could in itself make a good feature story.

Jina with two prized trophies: her FFA jacket and the Miss USA cup.

As a freshman in the Gilbert FFA Chapter, Jina was so shy she could barely bring herself to stand and introduce herself to the rest of the class, all boys. As a new girl in school she felt lost in unfamiliar surroundings. It was then her ag teacher, Clifford Kinney, now retired, got her involved in some elementary FFA activities.

"He asked me to be on a committee to pass out pop at an FFA field day. It was a small thing but it made me feel like I finally belonged," says Jina.

Jina's mother, Mrs. Terry Ford, remembers those early days as well. "At her first FFA banquet, she had to get up and make a short speech. Her knees were shaking so hard I thought she might pass out. But that was really the beginning of her career on stage."

From those early, rough beginnings Jina Ford began to blaze her own trail through FFA. Although she lived in a suburban environment she found an FFA project that fit her love for animals and the outdoors. She would buy day-old calves and raise them to be sold as feeders. At one time she had forty calves in the family's backyard. Despite the high risk of disease and fatality with baby calves, Jina lost just two throughout the entire project.

In her leadership activities she was just as successful. She served on the chapter's parliamentary procedure team which placed second in district. She fared well in public speaking competition, usually placing right behind Gilbert's Howard Morrison who went on to become national FFA secretary in 1978.

Jina competed on several chapter judging teams and twice competed on state winning teams. As reward, she twice attended the National FFA Convention with those teams, once with the state's livestock judging team and again on the state meats team. In addition, at one of the Arizona state FFA conventions she took home a trophy in talent competition.

(Above) An active cowgirl, Jina enjoys riding in rodeos. At right, she judged with the best in FFA's national livestock judging contest following a first place win for Gilbert FFA at the state level. (Below, from right) Jina's rise to Miss USA was prefaced by a challenging term as Arizona FFA state vice-president (in jacket) and another honor from her state FFA association: the state sweetheart crown, the first of Jina's major victories in "queen" competitions.

As a junior in high school Jina became involved in chapter sweetheart competition and soon became Arizona's state FFA sweetheart. With the title came a third opportunity to attend the National FFA Convention, this time to compete in the American Royal Queen Contest where she was chosen to be among the five finalists.

The following year Jina became the first female elected to a chapter office at Gilbert. As president she headed over 200 members.

As her FFA career drew to a close, Jina made one more decision: to run for a state FFA office. Like most decisions in her life this was not an easy one. A good friend and classmate, Glen Morrison, who was a cousin of National FFA Secretary Howard Morrison, also wanted to run. If they both ran they might detract from one another's candidacy.

"We sat down and talked about it and finally said, 'What the heck, we'll both give it a try,'" says Jina. Glen became president. And Jina became one of the seven state vice-presidents.

Her year in office was the highlight of her FFA career. It gave her the opportunity to give many public speeches and address groups of FFA members throughout the state. "The experience proved invaluable," she now says.

Jina went on to Mesa Community College where she began studying public relations. While she attended school she held down four different jobs at the same time. One of those was with the area's two largest daily newspapers, the *Arizona Republic* and *Phoenix Gazette*. "I served as their public relations spokesperson, visiting high school classes promoting the use of newspapers by their students. It was just like what I had been doing with the FFA."

That same year, Jina decided to run for the state's Fiesta Bowl Queen. The queen reigns over activities associated with the annual Fiesta Bowl football game. The selection of the queen was based mainly on speaking ability and an interview with a selection committee.

Again, Jina drew from her FFA experiences. "When I entered the room, I pretended I was interviewing with the state FFA officer selection committee. I walked into the room and shook hands with everyone present. I was the only one of 30 girls that had done so. From then on the interview was pretty relaxed."

Jina became the 1978 Fiesta Bowl queen. That brief experience with queen competition sparked her interest in the state's annual Miss Arizona pageant. Jina entered, along with 60 other girls. The judges' choice was unanimous—Jina Ford became Miss Arizona and set her sights on the Miss USA competition. A southern dress designer, who watched the state event, offered to supply the dress for her national competition. The finished dress was valued at $3,000.

The competition at Biloxi, Mississippi, went well despite an exhausting routine. Up at 6:30 each day, the 51 girls were kept busy for a full week. Bob Barker, emcee for the event, seemed to take personal interest in the rural Arizona girl and many in the audience thought Jina had a real chance to take the title. Then came dress rehearsal.

The opening introduction of the girls proved a bit tricky. Jina was expected to walk down a long flight of stairs coming down the center of the stage. As she made her entry, she discovered her $3,000 dress, covered with sequins and rhinestones, made each step a laborious and hazardous adventure.

About halfway down it happened. Her foot caught in the dress, she stumbled and went careening to the bottom. Bruised and embarrassed she pulled herself together and in her own unintimidated way shrugged and sheepishly waved to the audience. What should have been a disaster won the hearts of many in the crowd, including some of the judges.

The next night was like a dream. She was a finalist despite her black and blue knees. The lights blared. The cameras were poised. The girls were at their peak of beauty. Millions of viewers looked on.

The suspense was exhilarating. Then finally, the announcement: "In fourth place, Miss . . . . In third place, Miss . . . . Down to two. The title was nearly hers. "Kind of like running for state FFA president," she thought.

Bob Barker opened the envelope. "Miss USA for 1980 is . . . Miss Shawn Weatherly

(Continued on Page 28)

Miss USA

(Continued from Page 27)

of South Carolina." Again, a slight disappointment.

But it was not to last long. As the judges' pick for Miss USA, Shawn Weatherly would attend the Miss Universe pageant in Seoul, South Korea, six weeks later. There, with Jina in attendance, Shawn Weatherly became Miss Universe. Jina automatically became Miss USA and the two became roommates.

A year later, the former Future Farmer does not seem all that changed from the girl who was nearly too embarrassed to stand up and introduce herself to her fellow freshman ag classmates. More confident. More experienced. More at ease with large crowds.

Still, her biggest love is riding the horse she has owned and cared for for 17 years. New York City was fun, doing television shows like "Family Feud" and "To Tell The Truth" was exciting, meeting personalities like Jimmy Carter, Jack Lemmon, Darth Vader and Billy Joel was thrilling, and being featured in fashion magazines was a tremendous compliment to her personal appearance. However, Jina plans to leave all that behind, at least for now.

"I just belong out west, where things are more open and uncomplicated," she says. "I really want to get back to college to study business communications. I want to be able to use my public speaking ability, perhaps for local television news or a talk show. And I hope in some way I can help the young people of this country." Furthermore (take your place in line) Jina says someday she might like to marry a farmer or rancher.

Looking back on her years in vocational agriculture, Jina says she sees no contradiction between her participation in vo-ag and her feminine image. "Just because you get involved in farm activities you are not going to turn into a guy. I feel that I took part in some very healthy things, that is why I'm a healthy person now. It helps you avoid getting caught up in drugs or drinking or other kinds of garbage things," she says. "I think more girls should become active in these kinds of activities."

As for the FFA? She says she will never forget what it has done for her. "I never would have achieved what I have without it and the help of Mr. Kinney. I can't even talk about him without getting a lump in my throat," she says with genuine emotion.

That real emotion is not unusual for the former Miss USA. Though she may look like some kind of heavenly vision, Jineane Ford is genuine. Whether she's dressed like a queen in a beauty pageant or in blue jeans caring for her livestock, Jina is for real.

Spray Pilot

(Continued from Page 16)

flying as a spray pilot a little over one year ago. Then the hard part of his climb to success began. Spray pilots need customers, and Alex found breaking into business took the same kind of persistence as his efforts to become a pilot.

"There are over 200,000 acres of farmland on the Gila River Indian Reservation," says Alex. "I thought some of that business would come to me. But I've discovered that most of these farmers have been hiring the same spray service for years and are reluctant to change."

So Alex built trade gradually. He would ask a farmer to let him try 10 acres to prove his ability. Slowly but steadily business began to move his way. Using a rented spray plane and hiring the best employees he could find, Alex was able to prove his abilities as a pilot and chemical handler.

Every step of the business is critical. Mixing chemicals correctly is often as important as the flying itself. So much so, in fact, that when Alex first began his business he would hire flying done. That freed Alex to take charge on the ground, training his chemical handlers and flaggers who direct the spray pilot in the field.

Alex says the major crop farmed in the area is cotton. The biggest demand for a spray pilot's service is to apply insecticides, which are extremely hazardous to humans if handled incorrectly. "We take every precaution we can to assure our workers' safety," says Alex. "Usually in addition to the training I give our employees, the chemical companys put on courses to demonstrate proper handling and safety."

In addition to insecticides, Alex can apply defoliants, fertilizers, weed killers and seed through aerial application. Each operation takes special knowledge of the chemical involved for proper mixing and application.

(Above) The Piper is designed to carry 120 gallons of chemicals, leaving little room for the operator (left).

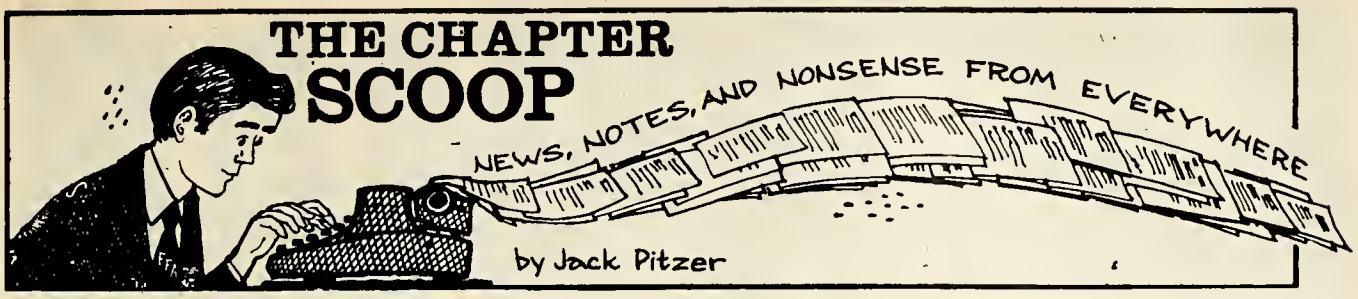
Alex has not lowered his sights since he began pursuing his dream. He is now negotiating with tribal authorities to acquire land for his own landing strip and a hangar for his airplane and support equipment. Eventually he plans to purchase his own spray plane, no small order since even older model spray planes start at about $15,000.

While he has been building his flying business Alex has not forgotten his beginnings. He still enjoys farm work and farms 20 acres of wheat and 30 acres of cotton. In addition he takes pride in helping his own people. All of his employees are tribal members. And the company itself has an Indian name: "O'odham" (the Pima word for Indian) Spray Service.

Alex loves his new occupation. "I like farming but for me it's so much more enjoyable to cover a field at 120 miles per hour in 15 minutes than to spend three days hoeing or irrigating in the Arizona sun."

At the same time, he knows it will be some time before he can consider himself a successful businessman. He is working hard to attract new customers and build a good reputation. He is not afraid of hard work, and has plenty of patience.

Neither is Alex Blaine afraid to share his beliefs. "Not only Indians—everyone needs the message," he says, "If you want something, go after it."



Five chapters in PA—*Big Spring, Boiling Springs, Red Land, Shippensburg* and *Cumberland Valley*—competed at a County Sports Night. After the hard-fought games in the gym, everyone piled into the shop for refreshments.

N-N-N

Mark Mendenhall, president of *Twin Valley North* FFA in OH is the first member of that chapter to earn a state degree in 30 years according to the chapter reporter.

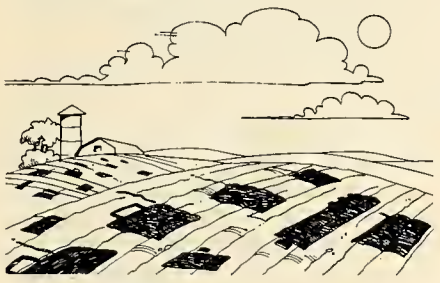
N-N-N

Advisor **Lisa Torchio** of *Quincy,* CA, will be a Work Experience Abroad participant going to Greece this summer.

N-N-N

Duchesne, UT, FFA will use the money the chapter received as a sales commission from participating in the Official FFA Calendar program to put up new signs at edge of town.

N-N-N



Miller, SD, discussed providing radio spots to promote National Farm Safety Week.

N-N-N

Dave Johnson, a Work Experience Abroad participant to Switzerland, spoke to *Belt,* MT, Chapter about his summer.

N-N-N

FFA Alumni sponsored a school assembly featuring a live orchestra for *Granton,* WI, school. Titled "Fun After Farming," the program showed different kinds of music and then a half-hour dance for audience.

N-N-N

At chapter banquet, *Monroeville,* OH, FFA gave a BOAC Community Service award to the Monroeville firemen.

N-N-N

Really . . . Advisor **Haynes** won the Womanless Beauty Pageant sponsored as a community fund raiser for FFA and the school band in *Rich Valley,* VA. Entries were all school employees. FFA editors declined the option to run the photo of the winner.

N-N-N

It'll be their fourth FFA rodeo in *Butler,* MO, according to Reporter **Curtis Long.**

N-N-N

Are there any of the reporters who attended *The National FUTURE FARMER* sponsored Reporter's Workshop at National Convention sending out news? Let us know.

N-N-N

Chelsea, VT, is investigating by questionnaire to determine if townspeople are interested in having a farmers' market. Their idea is to charge $2.50 to set up a booth.

Members of *Fort Defiance,* VA, Alumni Affiliate sponsored cash awards for local FFA members.

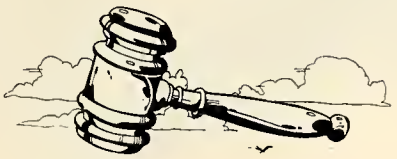
N-N-N

By collecting cans and by hosting a carnival and dance in the shop, *Mount Ayr,* IA, FFA earned $300 to send a second grade boy to an Easter Seal camp.

N-N-N

Alvrine, NH, collected 183 pints in their annual Red Cross blood drive.

N-N-N



The *Mediapolis,* IA, FFA has been under the gavel of three Hillyard brothers as presidents—Landen in '68-'69, Mark in '71-'72 and Bill in '79-'80.

N-N-N

FFA in *Erie,* KS, provides daily flag raising service at their school.

N-N-N

Dodge City, KS, FFA made a cake in the shape of a hog then paid $265 for it in United Fund auction.

N-N-N

Menu of *Worth County,* GA, FFA wildlife supper included squirrel, rabbit, deer, raccoon, opossum, dove, quail and fish.

N-N-N

FFA and VICA at *Riverside* High in Parsons, TN, bought a school bus for field trips. It was painted blue and gold by auto mechanics class.

N-N-N

Chairmen of all 11 committees reported at spring meeting of *New Knoxville,* OH, FFA. The reports then became part of the program of activities for next year.

N-N-N

Crowley, LA, Reporter **Kevin Guidry** sent news of the annual Aggies Day (races, ballgames, skill games) to build teamwork and sportsmanship.

N-N-N

Leaders of *Hemet,* CA, FFA are working to celebrate the chapter's 50th anniversary this year.

N-N-N

To get out prospective people for an Alumni Affiliate, *Houston,* MN, Chapter addressed postcards to as many businessmen, parents, friends of vo-ag, former members and farmers they could think of.

N-N-N

Wouldn't it be fun to go to the *Thomas,* OK, FFA all-you-can-eat ice cream and cake supper? For just $1.50.

N-N-N

Jackie Erb wrote in about *Greenway* Chapter, Phoenix, AZ, contributing cans of food collected in a drive for the community food bank.

Jim Gresheski came to the rescue of *Cedar Springs,* MI, FFA and contributed his FFA tie to fasten down the car trunk lid and keep the demonstration posters from flying out. The tie held and is still in use today.

N-N-N

Housatonic Valley, CT, Chapter developed a slide program to use in recruiting eighth graders from the six different elementary schools in the district.

N-N-N

Sutherland, NE, FFA earned $350 toward the budget with a Mexican dinner.

N-N-N

To get better attendance for summer meetings, *Martinsville,* IN, Chapter will hold their summer meeting in a local pizza palace and then when the food's gone, conduct the meeting.

N-N-N

Table centerpieces for *Bremen,* IN, FFA banquet were home-baked loaves of bread varnished and decorated with blue and yellow ribbon.

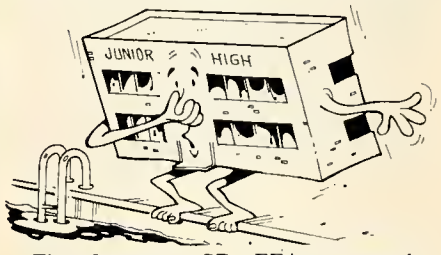
N-N-N

Vancouver, WA, Evergreen Chapter's three-day rest stop coffee break for drivers netted donations of $250 for March of Dimes.

N-N-N

Buhler, KS, Chapter newsletter has obtained a non-profit bulk mailing permit for their vo-ag/FFA newsletter.

N-N-N



The *Garretson,* SD, FFA sponsored a school-wide swimming party that went over with a big splash.

N-N-N

Blacksburg, VA, Chapter was sharp to take advantage of past state officers in college nearby to teach a leadership school for Blacksburg High students. The all-school leadership workshop was sponsored by FFA.

N-N-N

A rabies clinic for small pets was sponsored by *Osceola,* MO, FFA in cooperation with a local veterinarian.

N-N-N

After the parliamentary procedure team practice at *Central* FFA in Woodstock, VA, they get out and relieve tension with a good, hard basketball game.

N-N-N

New chapter sweetheart **Tina Ramos** of *Gadsden,* NM, also drove the tractor during the chapter's money-maker project of planting 1,500 pecan trees for local farmers.

N-N-N

More of you should share news items about your chapter. Some chapters send an item every issue for consideration.

Given proper management, farm ponds offer nearby fishing for "big ones."

Feeding Fish Pays

By Leo C. Pachner

Stock a farm pond, strip mine pond or borrow pit with bass and bluegill and in a few years you'll find you've raised a large population of undersized, underfed fish. You now have a problem common to most small, unmanaged fisheries: too many fish, not enough food.

Most people don't know that bass and bluegill produce incredible numbers of offspring. A female largemouth bass matures in two years and will lay 2,000 to 100,000 eggs each year. Bluegill start spawning at the age of 12 months and may spawn up to three times in one year if conditions are right. At each spawning, a female bluegill lays 2,300 to 67,000 eggs.

With this kind of explosive reproduction, the fish population quickly reaches a level where the size of each fish is limited by the available nutrients. An acre of water will support or "carry" a total poundage of live fish—be it one big fish or many small fish—that is in proportion to its "fertility," or the food supply. Since newly stocked ponds have many small fish, the total weight of the population grows to the point where the limited fertility brings individual fish growth to a near halt. As the fish age, they remain small.

A pond's fertility—its stock of dissolved minerals and microscopic organic matter—is determined by the pond's age, type of surrounding soil, geographic location, climate and watershed's condition. A watershed is a ridge dividing areas drained by different river systems.

Supplemental feeding used in a small pond yielded above-average size fish.

A pond is similar to a farm field. Cropland requires management and fertilization—so does a pond if it is to produce large fish. But fertilizing the water is a risky business. You could kill off most of your fish. Your best management move may be a supplemental feeding program.

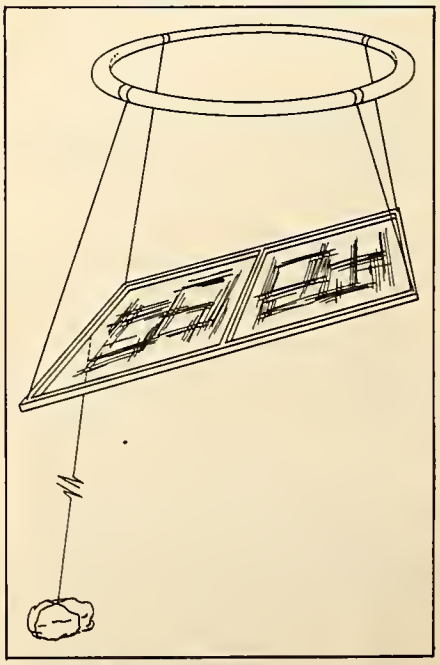
Fish can be fed a supplemental meal in a number of ways. Commercial trout and catfish raisers feed pellets made from soybeans and other plant protein. Catfish farmers have found that 1.5 pounds of catfish chow adds 1 pound of flesh to each fish. Farmers can produce up to 5,000 pounds per acre through supplemental feeding. Most warm water fishes, including bass, will eat commercial fish food.

Any feeding program demands proper management. Don't make the mistake of throwing a handful of pellets into your pond. If you are going to use manufactured food, use a fish feeder. You can make one of your own (see picture) or buy one. The feeder does two things: First, it lets you observe the fish eating. If the fish go "off feed" for a few days, save your pellets until they again show interest. Second, the feeder handles both sinking and floating pellets. A screen underneath a floating ring keeps pellets from sinking to the bottom of the pond where they decay. The screen also gives timid fish a place to feed without coming to the water's surface.

Another type of feeder can be made by standing a fence post in about three feet of water at a spot that is easy to reach from shore. Put a wire basket (the openings between the wires should be at least 1/2 inch) on top of the post. Put scrap meat, the heads and entrails of fish, in the basket. Flys will lay their eggs in the rotting meat. When the eggs hatch, the larvae, or maggots, will drop into the water. Soon, fish will station themselves near the feeder. One word of caution: decaying meat scraps cause a considerable stench.

Live insects, nearly 100 percent protein, make another excellent food for fish. Feeders are available that attract flying insects with an ultraviolet light. A fan then sucks up the lured bugs and blows them, alive, down onto the surface of the water. In the early evening, the water beneath the feeder begins to "boil" as fish come to eat.

Put a pellet feeder or a bug light feeder on the end of your boat dock and you'll soon have fantastic fishing just a short walk from your door.



This floating fish feeder is produced by Farm Pond Harvest and enables you to view the fish as they eat the feed.

Leo C. Pachner is president of the Professional Sportsmen's Publishing Company, publishers of **Farm Pond Harvest** *magazine.*

If you are interested in additional information on supplemental feeding, including addresses of feeding equipment manufacturers, write **Farm Pond Harvest**, *P.O. Box AA, Momence, Illinois 60954.*

BANKROLL

The Avco New Idea Round Baler.

Whether you're baling your own hay or doing custom baling for your neighbors, the Avco New Idea Bale King will add to your bankroll. It may not look like cold cash out there in the field; but when you add up all the money you can make, it sure isn't hay.

How can the Bale King help you make money in the custom baling business? For starters, it's fast. That means it can make more than 15 big round bales an hour. That's more than 90 tons in an 8-hour day.

And these aren't just ordinary bales. The Bale King rolls them up easily and gently, so the inner core stays soft and nutritious for livestock—yet, the outer wrap is wound tight to be tough and weather resistant.

This Avco New Idea Bale King isn't just any machine, either. It has a unique open-throat design and positive-start pickup to make it virtually plug-free. And you can count on it to start smoothly and evenly under just about any field conditions.

"I can make over $5,000 just this summer doing custom baling."

If you're looking for a way to pay college expenses or to buy that new car, Avco New Idea has a great idea: put yourself in the custom baling business with a rugged Bale King round baler.

Special classroom package on custom baling.

Avco New Idea didn't stop with producing a good machine. We've also produced a package of materials for your vocational agriculture classes that tell you exactly how to get started in your own custom baling business.

Tell your chapter adviser to see the local Avco New Idea dealer to obtain this special classroom package. Or, write to our headquarters at the address below.

AVCO NEW IDEA

Coldwater, Ohio U.S.A. 45828

Ag News from Industry

"Salute to Agriculture"

FFA members have been asked to write a television public service message in 100 words or less about the role farmers and/or ranchers play in improving the economy and standard of living in North America.

In the past three years, Hesston has developed the "Salute" into a television message aired during the Hesston-sponsored telecast of the National Finals Rodeo. Hesston plans to use this year's winning entry during the December, 1981, telecast and give it further exposure in other media.

A 1981 Hesston National Finals Rodeo commemorative belt buckle will be awarded to 100 finalists. The winner will receive $500 in cash. Two second place finishers will be awarded $250 each, and five third place finishers will receive $100 each.

"We want to urge those who enter to read the rules carefully, because there have been changes from last year," said Lu Achilles Wall of Hesston Corporation.

Entry forms and rules are available from the Hesston Corporation, Hesston, Kansas 67062, from Hesston local dealers and some FFA offices. Entries must be postmarked no later than September 30, 1981.

The MF 860, one of three new combines offered by Massey-Ferguson.

Three New MF Combines

Massey-Ferguson offers a new series of combines. Depending on crops and conditions, their harvesting capacity is up to 15 percent larger than earlier MF models. The new machines are the MF 860 and MF 850 self-propelled combines and the MF 851 pull-type model.

"By increasing the operative area of the concave nearly 10 percent, and adding an extra concave bar, the new machines' grain threshing and separating capability is substantially increased," explains Jack Winslow, Massey-Ferguson general planning manager—harvesting.

Also new on the 800 series self-propelled combines is a redesigned seat for improved operator comfort. This seat features shock-absorber suspension, all-cloth upholstery, wide fold-down left armrest, weight adjustment, seat-angle adjustment, lumbar-support adjustment and combined fore/aft vertical adjustment. The seat is similar in design to those on Massey-Ferguson's 2000 to 4000 series tractors.

Booklet to write for:

The five most powerful two-wheel drive tractors available from Allis-Chalmers are the subject of a new updated color brochure from the company.

These over 100 horsepower tractors, the Models 7080, 7045, 7020 and 7010, are the subject of this brochure titled "The Power Squadron." The five tractors are rated at 181, 161, 146, 123 and 106 hp, respectively.

Allis-Chalmers agricultural equipment line includes 14 tractor models, 7 combine models, cotton harvester and a wide range of implements.

For copies of this brochure, "The Power Squadron," form No. AED 788-8101, write to the North American Sales Division, Agricultural Equipment Sector, Allis-Chalmers Corporation, P.O. Box 512, Milwaukee, Wisconsin 53201.

New VHF Radio

Midland Land Mobile Radio has a new 2-way mobile radio engineered to meet the medium-range communications requirements of farmers. The radio, Model 70-315, is a 15 watt, 2-channel VHF (150-174 MHz) under-dash unit.

Model 70-315 can be equipped for continuous tone coded squelch (CTCSS). It is tunable to permit selection of all 32 EIA tones. These features permit the user to receive only correctly-coded signals intended for him, eliminating unnecessary monitoring and distractions. The under-dash radio measures only 2 1/16" H x 9 5/16" W x 9 3/4" D, and will conveniently fit into today's new smaller vehicles. List price, with one pair of crystals installed, $370.

Further information may be obtained by writing Midland Land Mobile Radio, 1690 North Topping, Kansas City, Missouri 64120, attention Marketing Manager, LMR.

The VHF Model 70-315 introduced by Midland for agricultural and rural use.

New Forage Harvesters

John Deere has introduced two new "Time-Mizer" self-propelled forage harvesters with increased horsepower and exclusive cutterhead design. The new units are the 210-hp 5720 and the 275-hp 5820.

Both "Time-Mizer" forage harvesters feature the Dura-Drum™ cutterhead originally introduced on the John Deere 3940 and 3960 Pull-Type Forage Harvesters. The Dura-Drum cutterhead, with 40 segmented knives, gives the clean, uniform cut needed for peak efficiency.

Also adapted from the 3940 and 3960 is the easy stationary knife adjustment which can be accomplished simply, without special tools, in as little as five minutes. The ease of adjustment reduces service and adjustment time, encouraging more frequent adjustment for operation at peak performance.

A new Sound-Gard® styled cab with Personal-Posture™ seat is standard equipment for operator comfort. Optional air conditioning will keep operators fresh and alert, even on hot and humid summer harvest days.

New "Time-Mizer" self-propelled forage harvesters will accept a wide variety of headers, including a 2-row row-crop head (5720 only), 3- and 4-row converging row-crop heads, 12-foot mower bar, 7-foot hay pickup, and 3-, 4-, or 6-row corn heads, the same as those used on John Deere "Titan" combines.

The 5820 is the top of John Deere's new line of self-propelled forage harvesters.

S U M M E R

"One minute I was chasin' through eye-high brush with a rope on an old range steer; the next minute he's chasin' me tryin' to get a hook in my leg. I hung on and let my horse run us outta there while my Levi's® Western Shirt and Range Pants fought the thorns to a standstill. As it is, I'm headed home minus the steer, but smarter in a lot of ways. A man who intends to help himself into trouble, better have equipment that'll help him out!"

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Kathy's business responsibility and FFA activities keep her calendar full.

The Mark of A Motivator

A proven leader in FFA, Kathy Peterson now aspires to assume a role of leadership in her chosen career.

Few 19-year-olds have faced the challenges met so far by Kathy Ann Peterson of Putnam, Connecticut. The ambitious state FFA president has handled her many official duties well, earning the American Farmer degree in agribusiness while serving FFA in many leadership capacities.

Kathy's ventures and adventures—she worked on a Swiss farm via FFA's Work Experience Abroad program—have helped round her personality to a winning combination of warmth, determination and poise.

"Opportunities in FFA," Kathy asserts, "should never be considered just fun things to do. The whole purpose of vocational agriculture is training people for a career. And FFA activities contribute greatly to that training."

Kathy's career in horticulture is taking shape quickly. She has a good start toward her objective of owning and operating a florist/greenhouse operation. Valuable experiences as manager of her family's Windy Acres floriculture and greenhouse business has given Kathy skills and confidence necessary to run one's own enterprise. She learned many of her competencies by watching her fellow workers but self-assurance developed from the Putnam FFA Chapter.

"My salesmanship has benefitted greatly from FFA leadership training," shares the former chapter and federation officer.

Creativity is exercised often in bouquet design.

"Nothing could beat the FFA public speaking contest to get you to stand squarely on your own two feet. But it's not just learning how to speak—it's the confidence you derive from speaking." Kathy grins, adding, "Now I think I can sell anything to anybody."

She has plenty of opportunity to sell. Kathy's parents, Glenn and Johanne, have seen their business grow in 15 years from a dream to a busy establishment, one of the most progressive in northeastern Connecticut.

"Flowers say and do a lot of things," says Kathy, her experience showing through. "They can brighten people's days, make depressed people look forward to brighter times and make the sick realize better health lies ahead.

"And," she jokes, "they're great to let neglected wives and girlfriends know they're still loved."

With every beautiful bouquet, though, comes a process requiring proficiency in floriculture, horticulture and even business management. A knowledge of soil and plant science is essential to the successful florist/greenhouse operator. Creativity is also a must as is a sense of business economics. Kathy has developed skills in all these areas through experience and vocational agriculture courses. Practical application of her studies arise every day, reinforcing her knowledge of many useful management techniques.

"Before you even think about floral design," advises Kathy, addressing would-be florists, "You must care for the plant itself. It's the valuable raw ingredient. I concentrate my school studies in detailed courses dealing with plant pathology, soil testing and chemical usage. You must learn things like how to maintain a flower's beauty, such as keeping it stored at around 33 degrees Fahrenheit until needed.

"But even if a student chooses not to go into the business, or never intends to, horticulture is a practical science to learn. It has many applications whether you're a farmer or a florist."

In Kathy's 1980 nomination form for national officer candidate from Connecticut, she listed "conduct motivational seminars for managers in the floral industry" as a career objective. As with most state FFA presidents, she has the speaking talent and motivational ability to make a presentation. And she knows what needs to be said.

"Some florists," she admits, with some dismay, "do not stay in tune with the times. That includes ourselves, though we're constantly improving. I think many people don't realize how much they must change their operations to be successful. For example, some florists will hear the wholesale price of a dozen roses and simply not order any, thinking the retail price will be too high. I believe the customer should dictate whether the price is too high. Also, more progressive florists would think of alternatives to a dozen roses, like selling fewer or selling silk roses in pretty boxes.

Kathy says more establishment as a horticulturist is necessary before she produces her motivational seminars. She already leaves a mark of motivation with FFA audiences, and a mark of honest service to Windy Acres customers. Soon the floriculture industry will listen to a fresh new leader with strong ideas and concern for the future of her chosen career.

Dirt Burglar

(Continued from Page 15)

the farm received both regional and district awards as Tennessee's Conservation Farm of the Year. "A series of seven dams in a sediment basin drainage system cut our loss to 7 or 8 tons a year. Then, with wheat as a winter cover crop and no-till soybeans, we lost less than 2 tons per acre."

The success of Caldwell conservation practices can be repeated on land that is seemingly useless for production. A farm called "Gulleyview," once a washed-out wasteland, proved to Joey that conservation can work wonders.

"The group leader of our college's Natural Resources League has restored Gulleyview and made it productive," Joey says, sharing the program he observed along with fellow freshman soil science students at the University of Tennessee. "Conservation can work," he adds, "even on a hopeless farm."

American farmers may be too quick to assume their land is "hopeless" for agriculture. The U.S. is a young country. Unlike many developing countries, where land has been "mined" of its nutrients for thousands of years, American soil has possibilities of enormous production. Also unlike farmers in many developing countries, American farmers can afford expensive fertilizers and irrigation systems necessary to reclaim otherwise useless soil for production. Joey is quick to recommend conservation structures and practices but he does caution of unavoidable costs.

"There's a lot of expense in constructing conservation structures like dams and waterways," he says, "especially if you don't have the equipment to do it yourself. Even if you own the equipment, time is a factor. If you devote hours and hours to conservation you have to value your time. After all, that time could've been spent doing something else constructive."

The Caldwells say the time and equipment expense spent on conservation is a good investment. Joey's crop records show improved yields due to better water retention and richer soil. Fuel and labor costs have decreased since conservation tillage saves at least one tractor trip over the Caldwell's 800 acres of cropland. Less use of expensive equipment also means less wear. And Joey says the government is willing to help out financially.

"The government will supplement some expense on structures like retention dams," he offers, "but often their strict specifications cost you as much as the supplement. To build our retention dams, though, we had to have help from the Soil Conservation Service. The district SCS man was very helpful in determining the slope of the dam, spacing of the tiles and other plan lay-outs. I'd suggest working closely with SCS if you're interested in building retention dams on your farm."

Joey says farmers often build one land retention structure, see it rapidly fill with sediment, then promptly consider other ways to save soil. And in a country where nearly 4,000 acres of farmland are lost to development and erosion every day, the farmer's army battling the dirt burglar needs more recruits to join Joey Caldwell.

Martin FFA Advisor Marvin Flatt joins Joey in filling the seed hoppers on the Caldwell's no-till planter.

(Above, left) Joey received deserved recognition as a national proficiency award winner on stage at the 1980 National FFA Convention. Above, right, Joey explains the function of a standing drain pipe—just one conservation method used that earned him national recognition in FFA.

The entire Caldwell family pitches in to make their farming operation successful. Learning respect for the land at an early age, the Caldwell sons each "think conservation" in their farm chores. From left, Chris, Joey, Kenny and Billy with parents Mary and Gerald.

FFA IN ACTION

Channel 5 came to the school for filming FFA student spokesmen. Members helped unload and set up equipment.

TAKE ONE

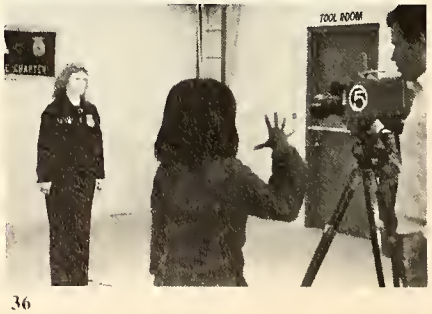
On Wednesday, January 14, there was a large amount of excitement coming from the vo-ag students at Smithville High School near Wooster, Ohio. The crew from Channel 5, WEWS, Cleveland, Ohio, was there to film "Classroom Camera."

Selected students had 30 seconds to speak on various topics concerning agriculture. The students spent the afternoon taping and retaping to make sure Channel 5 had a good take. After the first few seconds of stage fright the cameras rolled more smoothly.

Topics included "Progress on a Dairy Farm," "Agriculture Marketing," "Safety," "Leadership," the "Old Farmer Image" and "What the FFA Is." The main purpose of the filming was to show viewers that agriculture isn't just farming.

Each of the students wrote his or her own script on their topic. They were Jim Anderson, John Kaufman, Mike Maxwell, Miles Zimmerly, Karen Elliot, Todd Stoll, Ed Brillhart, Jeff Baab, Dave Drake, Doug Shisler, Beth Suttle, Stan Wertz and Kelly and Heidi Miller.

Each of the spokesmen was taped there in the vo-ag department, then the filmed presentations aired later.



Fifty programs were shown over a three-week period including National FFA WEEK. *(Dave Drake, Reporter)*

CAPITAL CITIZENSHIP

Over 60 FFA members representing every region in the state of Maryland gathered on February 10-11 to participate in the Fourth Annual FFA Annapolis Citizenship Conference held in Maryland's state capital. The conference was designed to help chapter officers lead more effectively by expanding their knowledge of Maryland's state government. For many of the members it was their first visit to the state capital.

Early Tuesday morning FFA members from all across the state began to gather for the initiation of the conference. After having the opportunity to meet one another and having the orientation, they boarded the bus which took them to the Maryland Department of Agriculture. Here they had a chance to see first-hand the activities of MSDA and toured the facilities to learn about current projects such as marketing, weights and measures and entomology's gypsy moth control program. They were greeted by the Maryland State Secretary of Agriculture Wayne Cawley, who presented a slide program about his recent trip to China with the governor.

After lunch, the next stop was the State House to watch both the Senate and House of Delegates in session debating a wide variety of issues. Phil Arnold, Maryland FFA president, gave the invocation before the senate and received the Senate Resolution #169 offering the Future Farmers of America its sincerest congratulations for contributions to agriculture and for preparing the state's and nation's young men and women as future leaders. The resolution was sponsored by the president and all other senate members. They also toured the Maryland Government House, residence of the governor and his family.

At that evening's banquet in Annapolis, three special guest speakers were on hand to discuss the Maryland state government procedures and processes.

Judge Maurice Turk, Anne Arundel County Circuit Court judge, told about the judicial branch of the government; Mr. Marvin Bond, assistant to the comptroller, spoke about the workings of the executive branch; and Senator James Clark, president of the Maryland State Senate, spoke on the legislative branch.

Following the question period the conference participants were separated into four committees to represent budget and taxation, judicial proceedings, finance and constitutional, and public law committees of the legislature. Committee hearings were set up to discuss riding in unenclosed trucks (House Bill #113), alcoholic beverage legal age (Senate Bill #151), smoking in public places (Senate Bill #98) and mandatory motorcycle helmets (Senate Bill #46). Conference participants had received the bills in advance so that they could accumulate information from community members about the topics. During the committee hearings, testimony was heard both for and against each bill. After the testi-

FFA members took part in a mock legislative session in the state senate chambers and were given the opportunity to discuss agriculture issues pertinent to official bills coming before the legislative session this year.

(Continued on Page 38)

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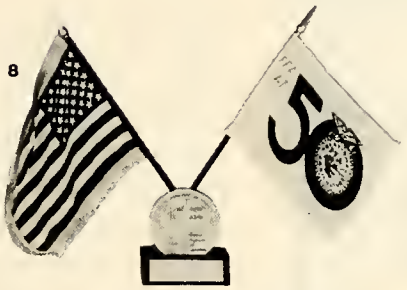

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FFA IN ACTION

(Pick up ACTION from Page 36)

mony and discussion, committee members voted on their bill and reports were to be made the following day by committee chairpersons.

Wednesday morning was the highlight of the conference as FFA members gathered in the State House for the arrival of Governor Harry Hughes who met with the delegation for the proclamation signing declaring February 21-28, 1981, as FFA WEEK in Maryland. He commended this observance to all Maryland citizens. Governor Hughes took the time to meet with each FFA member individually after presenting the proclamation to the association. Following the visit with the governor, FFA members were escorted into the senate chambers to hold a mock senate meeting and to hear the committee reports and give everyone a chance to discuss each bill. Senator James Clark, president of the senate, instructed members on the correct procedure used during senate sessions.

Then, delegates were given the chance to visit with their senator or delegates in their offices and invite them to the Legislators' Luncheon held in the United States Naval Academy Officers' Club. Keynote address for the function was given by Mr. Ben Cardin, the speaker of the house for the Maryland State House of Delegates.

The conference came to a close with an evaluation from the participants who enjoyed the conference tremendously and greatly appreciate being given the chance to attend this valuable learning experience. The conference was sponsored by the Maryland Farm Bureau and Nationwide Insurance Company, as well as the Maryland Department of Agriculture and coordinated by the Maryland state FFA staff and state officers.

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HIGH SCHOOL TRYOUT

The Northmor, Ohio, FFA Chapter in Galion sponsored a unique school assembly entitled "Decade of Decision" in March. This is a 12-projector computer-controlled presentation developed by the college of agriculture at Ohio State.

This presentation was developed to tell the story of agriculture in the 1980s and its importance to the future. The 970-slide show takes 20 minutes and 20 seconds to run and uses three small computer dissolvers to automatically advance and control the projectors.

Associate Dean Kenneth Reisch, from the College of Agriculture and Home Economics, also spoke to the student body of Northmor about the career opportunities in agriculture, home economics and natural resources. He explained that a 15 percent shortage is predicted for people to fill positions in these areas. He encouraged the students to continue to seek education so they may help ease this shortage.

This program has been shown to many businesses and community leaders including the Ohio legislature but this is the first time it has been shown to a high school or high school group. So the Northmor Chapter showing was a test run. *(Peggy Ruhl, Reporter)*

A GLORIOUS PAST: A GREAT FUTURE

Festivities for the Linn, Kansas, Chapter's 50th anniversary celebration were held on February 28, 1981.

In the afternoon there was an open house at the vo-ag building from 3 to 6 p.m. There was an old and new tractor show outside where the ages of the tractors ranged from a 1936 John Deere "A" to a 1980 Hesston four-wheel drive tractor. The tractors were donated by area farmers and Kulhman Implement Company. Also on display were recent projects built by members—log splitters, sawhorses and large bale feeders.

On display in the classroom were old manuals from the past 50 years and old articles, awards, banquet programs and old state and National FFA Convention programs. The chapter members acquired these old FFA articles from past FFA members around the community. There were approximately 250 people who passed through the open house at the shop.

Later on that evening a whole-hog barbeque and program was held in the Linn High School auditorium for past and present members, FFA Alumni and their families. Three hogs were donated by six area farmers.

Arnold Lohmeyer, a past chapter president and past Kansas state vice president in 1937, gave an interesting and humorous talk which was followed by the Linn FFA Chapter chorus which sang several entertaining songs.

Advisor Howell told what the chapter did the past year. Then, the past presidents came on stage and told who their officers were, what some of their highlights were when they were in office and what they are doing today. Thirty-two former presidents participated. The youngest past president, Tim Ohlde, is presently the Kansas state president. He was the chapter president in 1979-80.

The oldest past president was also the featured speaker, Bill Duitsman, a past chapter president in 1934-35. He is a past Kansas state FFA treasurer from 1935 and is presently the Kansas State Secretary of Agriculture. Mr. Duitsman spoke on today's agriculture. There were over 350 people on hand for the program and meal.

The chapter prepared for this great event for several months. Also many community people, other students and faculty, helped in making the Linn FFA's 50th anniversary a huge success. *(Allan Ohlde, Reporter)*

"According to the Bible, one reaps what one sows. I don't remember sowing weed seeds."

Campers can enjoy a hard game of volleyball, swim or go biking in the Adirondacks.

IT'S A CAMP OSWEGATCHIE

The air is cool and still. You can hear the birds singing. You find yourself viewing New York's beautiful Camp Oswegatchie located in the northern Adirondacks.

The camp was purchased by the New York Association of FFA in 1946 and consists of 1,200 acres of wooded land surrounding the four Camp Oswegatchie ponds.

The camp consists of nine campsites located throughout the area as well as two lodges, a conference building and several small cabins. The camp also has an operating saw mill, a barn and an outdoor classroom. All of these add to the uniqueness and attraction of the camp.

The camp facilities have other uses aside from the summer program. During the first week of July, the camp is used for state officer training. At this time the officers receive instruction on their many duties and responsibilities and develop experience in leadership training. After receiving this instruction, the officers are required to teach the leadership courses for the summer FFA program.

The camp also has several work weekends at which time volunteers help to prepare for oncoming seasons.

Throughout the winter months many members attend camp to enjoy the numerous winter activities available thus taking full advantage of all Camp Oswegatchie has to offer.

But during the summer FFA camping season from across the pine-sheltered pond echoes the first sounds of the wake-up horn. It is now 7 o'clock and another busy day of camp has begun. Sounds of activity come from the different camp sites as campers prepare for the day's activities.

Each morning before breakfast, the flag-raising ceremony is conducted. Then everyone files into the dining hall to enjoy the morning meal.

Following breakfast the campers are responsible for cleaning detail at their various campsites and other designated areas. A single scrap of paper could mean KP so each camper does his best.

At 9:00 a.m. leadership classes begin. These classes are taught by the state officers and are classified in three sections; Leadership I, II and III. These courses are designed to help the campers become familiar with the FFA organization, develop leadership skills, recognize the opportunities offered by the FFA and assist in personal development.

After the leadership classes are completed the campers are free to participate in the many available activities. This could be a refreshing swim, sneaker creeking, horseback riding, water skiing, crafts or first aid.

At 6:00 p.m. there is usually a softball game or other competitive activity between the different campsites which gives the campers the opportunity to practice teamwork and sportsmanship.

Then at 7:00 p.m. the organized evening programs begin featuring a rodeo one time, a woodman's field night, a water carnival or the Oswegatchie follies night (better known as skit night).

Just before turning in, a vespers program is conducted by the staff. As vespers

(Continued on Page 40)

State FFA Executive Secretary Roy Denniston is up at bat in a game at camp.

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These 100% polyester gabardine ties are generously decorated with sows and baby pigs. They're available in navy or brown for $7 plus handling.*

Use the coupon below. You'll be in hog heaven.

* Orders received by June 10 will arrive in time for Father's Day, June 21.

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Please send me _____ navy blue ties and _____ brown ties.
☐ My check for $7 plus $.50 postage and handling for each tie is enclosed.

My name is _____

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☐ Please charge my Master Charge or Visa (circle one) account.

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FFA IN ACTION

(Pick up ACTION from Page 39)

is completed the campers troop out to their different campsites to get a well-needed rest. *(Jenny Sweetman, State Reporter)*

SENIOR SCHOLASTICS

This year the Newell, South Dakota, FFA began a chapter scholarship program. The scholarships were awarded at the parent-member banquet in January. First place winner was chapter President Keith Dunn. Second place winner was David Ollila, chapter secretary.

Rules for the scholarship program announced that two awards would be presented each year with a first place of $150 and second place of $75.

Eligibility requirements stipulated that applicants must be a senior vo-ag student and a member of the chapter, must have been in FFA four years, must enroll in college, vo-tech or other post high school program and must have a cumulative C+ average in vo-ag courses.

The selection criteria was weighed on leadership activities in the FFA (30 points), leadership activities outside the FFA (20 points), vo-ag grades for four years (30 points), other high school grades (20 points).

The selection committee consisted of the vo-ag teacher and four members of the Ag III and/or Ag IV classes.

Applicants also were required to submit their SOEP record books for the evaluation of their leadership activities. *(Robert H. Johnston, Advisor)*

A SHINY BIG NEW KEY

Tommy Newman, Bradley Chapter president in Cleveland, Tennessee, received ceremonial keys to a new 1980 Chevrolet truck for the chapter from Mr. Ken Wright of Hall Chevrolet.

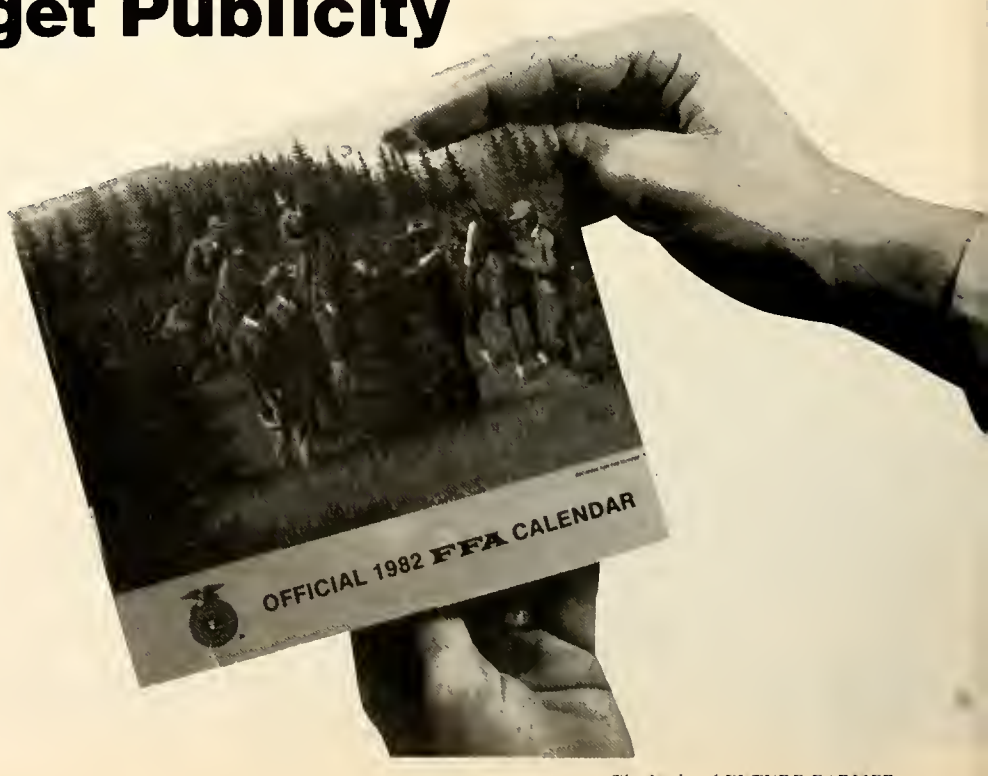
FACTS FOR ACTION

Guide to Good Eating . . .
A Recommended Daily Pattern

Think	The recommended daily pattern provides the foundation for a nutritious, healthful diet. The recommended servings supply about 1200 Calories. Adjust the size of servings as needed for growth, energy and to maintain desirable weight.
Think: calcium riboflavin (B^2) protein	**Milk Group** 3 Servings/Child 4 Servings/Teenager 2 Servings/Adult Foods made from milk contribute part of the nutrients supplied by a serving of milk.
Think: protein niacin iron thiamin (B^1)	**Meat Group** 2 Servings Dry beans and peas, soy extenders, and nuts combined with animal protein (meat, fish, poultry, eggs, milk, cheese) or grain protein can be substituted for a serving of meat.
Think: vitamin A vitamin C	**Fruit-Vegetable Group** 4 Servings Dark green, leafy, or orange vegetables and fruit are recommended 3 or 4 times weekly for vitamin A. Citrus fruit, daily for vitamin C.
Think: carbohydrate thiamin (B^1) iron, niacin	**Grain Group** 4 Servings Whole grain, fortified, or enriched grain products are recommended.
Think: carbohydrate fat	**Others** Fats, sweets, and condiments complement but do not replace, foods from the four groups. Amounts should be determined by individual caloric needs.

. . . from *"Nutrition Source Book"* provided by the National Dairy Council.

Use the 1982 Official FFA Calendar Program to get Publicity for Your Chapter.



Find out how from:
Official FFA Calendar Dept.
National FFA Center
Box 15130
Alexandria, VA 22309

DOGS IN TRAINING

The Wauseon, Ohio, FFA had three members volunteer to take home and train purebred Labrador Retrievers with some basic skills like sitting, heeling and obeying other small orders. The three members kept the dogs for a full year at home and the food was provided by local sponsors. The dogs were recently taken back down to Columbus for further training as seeing-eye dogs. Members from left to right are Phillip Spiess, sponsored by Kolb's Feed Mill; Deb Double, sponsored by Pettisville Grain; and Chris Tinsler, sponsored by J & B Feed Company.

HURRAY FOR AG DAY

The Cleburne, Texas, FFA geared up big to celebrate and proclaim March 19 as Agriculture Day. Cleburne FFA members Danny Richardson, president, and Diane Colwell, vice president, planned several programs to involve the chapter in this national promotional campaign to develop ag awareness.

The Cleburne FFA was invited to attend the Agriculture Appreciation Day sponsored by the Cleburne National Bank.

The exhibit was titled "Agriculture! It's Your Heartbeat America!" and contained facts about agriculture in other countries and how it compared to agriculture in the United States. The chapter officers passed out pamphlets to those who attended the program.

Mr. Reagan Brown, Texas commissioner of agriculture, was the main speaker.

Diane Colwell, left, and Danny Richardson, right, organized Ag Day promotion and ordered bumper stickers to promote the event.

Cleburne FFA members posed with Ag Day speaker. From left to right, Ricky Carroll, Marshall Horn, Barry Rice, Danny Richardson, Commissioner of Agriculture Reagan Brown, Diane Colwell, David Gustin, Dick Lee and Rickie Leck.

ACTION LINES

- Say hi and introduce yourself to someone you don't know at the fair.
- Make homemade butter pecan ice cream.
- Save your *National FUTURE FARMER* issues.
- Go out to the back 40.
- Buy a used set of golf clubs.
- Make extra money by selling tomatoes you've grown.
- Paint something.
- Find a plot of ground for senior citizens to cultivate.
- Wash someone else's car.
- Talk your aunt and uncle into joining the FFA Alumni.
- Plant some bright red or yellow flowers out by the alley.
- Plant some eggplant.
- How about a sandwich of braunschweiger topped with radish sprouts?
- Take pictures of your first car.
- Buy 25 goldfish and fill up the tank.
- Can you stop smoking?
- Help your chapter prepare for the state convention.
- Be buddies with a bull.
- Have them teach you how to churn butter.

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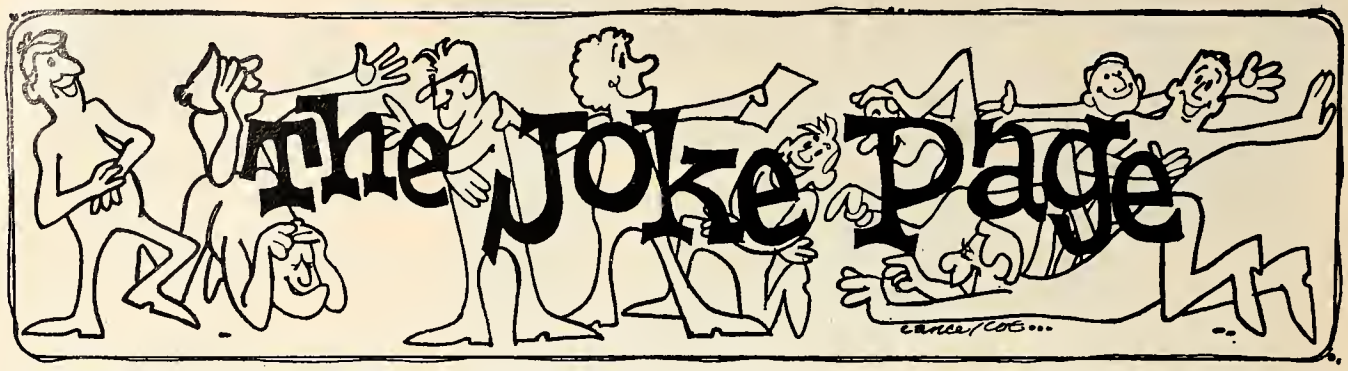


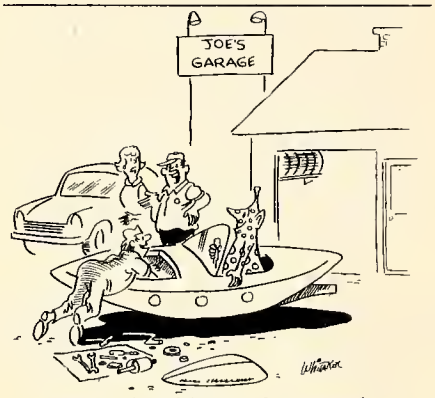
The teacher had asked her third-grade class to write a composition on the things for which they were thankful. One little boy summed it up very neatly.

"I'm thankful for my glasses," he wrote, *"they keep the boys from hitting me and the girls from kissing me."*

Ruth Moore
Liberty, Kentucky

Father: *"What is the hardest thing about learning to ride a bike?"*
Son: *"The pavement."*

Mark Grove
Forest Lake, Minnesota



"Bert will tackle any foreign job—regardless of make."

"Is my dress too short?"
"Either too short or you're in it too far."

Thomas LaMance
Modesto, California

Farmer: *"I have never seen such a season. My corn isn't an inch high."*
Neighbor: *"An inch? Why, sparrows have to kneel down to eat mine."*

Bobbie Mae Cooley
Bowen, Illinois

Teacher (pointing to a deer at the zoo): *"Johnny, what is that?"*
Johnny: *"I don't know."*
Teacher: *"What does your mother call your father?"*
Johnny: *"Don't tell me that's a louse!"*

Thomas LaMance
Modesto, California

One ag student to another while looking at the Joke Page, *"We can't send in our chapter joke."*
"Why not?"
"He won't fit in an envelope."

Las Animas Chapter
Las Animas, Colorado

Q: What would you do if you woke up in a space ship going to Mars?
A: Leave the arcade.

Mike West
Fort Sumner, New Mexico

Two nuns were out driving and ran out of gas. They walked to a nearby gas station which happened to be located next to a hospital. The attendant had no gasoline can, so the resourceful nuns borrowed an old bedpan from the hospital refuse heap and used it to carry gas to their car. As they were pouring gas into the tank, a priest drove by, stopped in amazement, shook his head and exclaimed, *"Lord, I have seen strong faith before in my day, but this tops 'em all."*

Duane Binder
Gibbon, Minnesota

Daughter: *"If you really love me, you'll pull some wires so I can graduate."*
Father: *"How about telephone, car ignition, stereo and TV?"*

Theresa Gartner
Preston, Minnesota

Crime rates are reported down in many cities. Probably because there's so little left to steal.

H.A. Brown
Darlington, Missouri

A man bought a parrot at an auction after some heavy bidding. *"I hope this bird talks,"* he told the auctioneer.

"Talk?" the auctioneer replied, *"Who do you think has been bidding against you for the past ten minutes?"*

Pamela Hall
Maggie Valley, North Carolina

Jerry: *"Is my car in bad shape?"*
Mechanic: *"Let me put it this way, if your car were a horse, it would have to be shot."*

Jason Moore
Liberty, Kentucky

A hillbilly moonshiner decided to become a counterfeiter. He printed some currency and took it to his rural general store to test it. Ordering a dollar's worth of chewing tobacco, he slapped a 19-dollar bill casually on the counter. Just as casually, the proprietor glanced at it and said, *"How do you want your change, Mister? Three sixes or two nines?"*

Peter Allen
Chandler Oklahoma

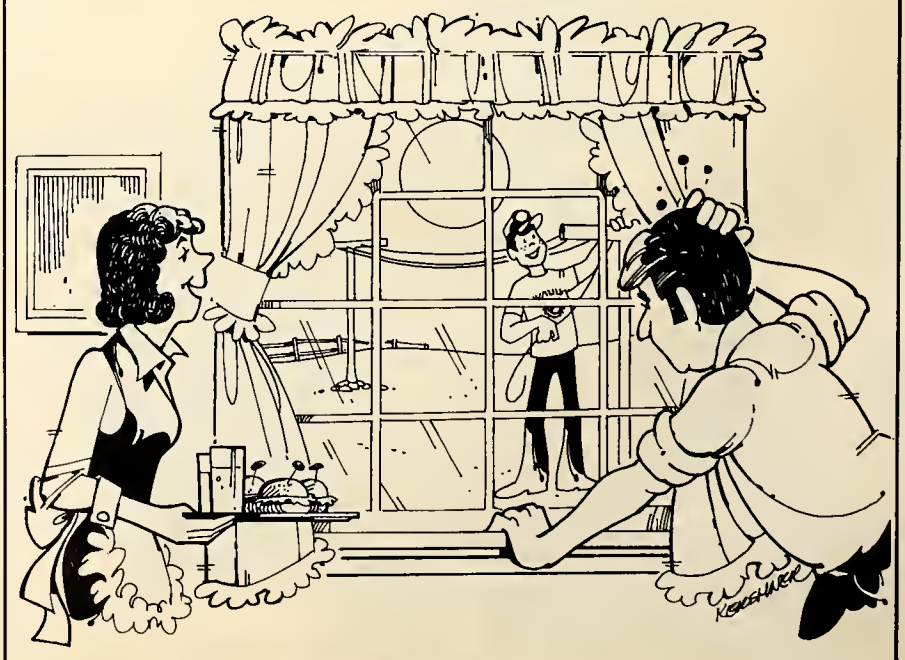
Doctor: *"Your husband must have absolute quiet. Here is a sleeping powder."*
Wife: *"When do I give it to him?"*
Doctor: *"You don't. You take it yourself."*

Julian Deavers
Rileyville, Virginia

An elderly fisherman wrote the following in a letter to a mail-order house: *"Please send me one of those gasoline engines (that you show on page 438) for my boat. If it's any good, I'll send you a check."* In a short time the fisherman received the following reply: *"Please send check. If it's any good, we'll send the engine."*

J.D. Nix
Millbrook, Alabama

Charlie, the Greenhand



"It's his idea for the chapter's Energy Challenge—a solar powered clothes dryer."

The National FUTURE FARMER *will pay $2.00 for each joke selected for publication on this page. Jokes must be submitted on post cards addressed to The National FUTURE FARMER, Alexandria, VA 22309. In case of duplication, payment will be for the first one received. Contributions cannot be acknowledged or returned.*

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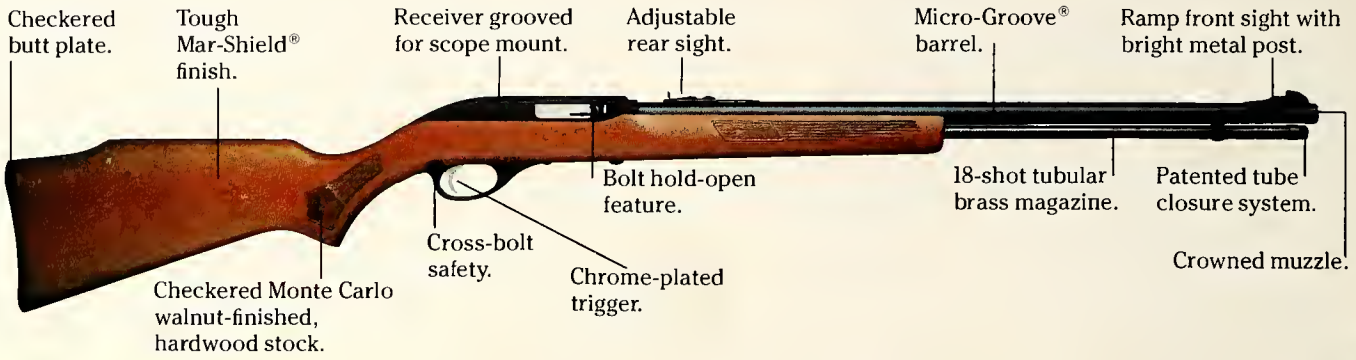

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